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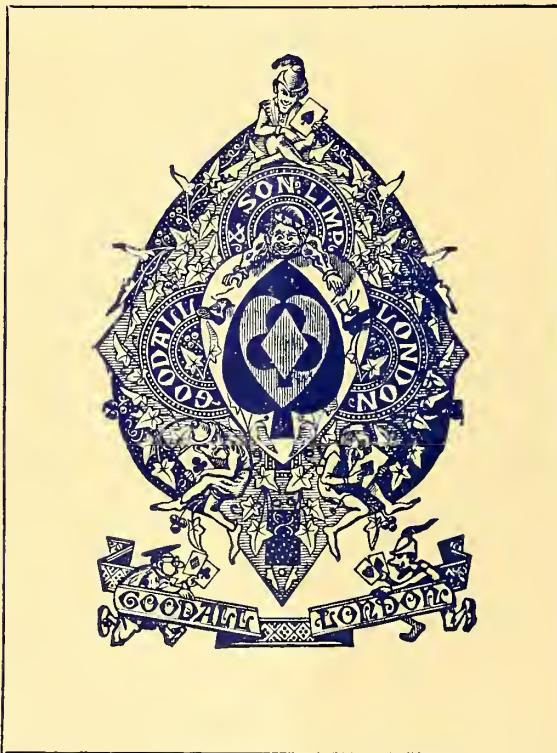
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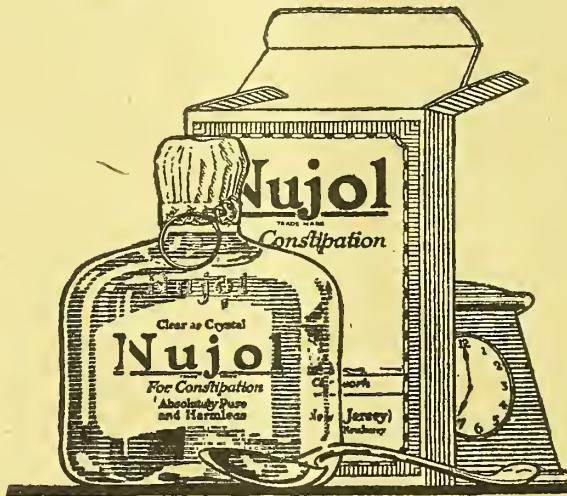
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In the opinion of our Counsel, Mr. Charles M. Russell, this matter will not be further reviewed in the Court.

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in Bulk.

5 grs. 13/- per 1000.

In bottles of 25, 6/-, of 50, 10/-, of 100, 19/- per doz.

Saccharin Tablets $\frac{1}{4}$ grain 6/- per 1000.

" " $\frac{1}{2}$ " 8/-, 1000.

" " $\frac{1}{2}$ " 11/-, 1000.

Cash with order. Postage free.

Special prices for larger orders.

THE B. & A. TRADING CO.

Alkima Works, 65 Regent's Park, Road, LONDON, N.W. 3.

Saccharin Tablets

(UNCONTROLLED).

½-gr. 330 strength @ 10/- per 1,000

½-gr. 330 " @ 14/- "

½-gr. 330 strength @ 17/- "

Not less than 2,000 tablets supplied. Registered postage 8d. 10,000 upwards, post paid. Cheque with order. Any quantity supplied by return of post.

Samples on application. Bulk GUARANTEED to sample.

W. BENNISON & CO.

59 MARK LANE, LONDON, E.C. 3.

Telephone: Ave. 3727. Telegrams: "Polychem, Fen, London."

SACCHARINE, 550 strength guaranteed
"MONSANTO" Brand.

20 lbs. spot delivery. What Offers?
 All Offers to Box 13/15, Office of this Paper.

HOLMIER SACCHARIN TABLETS.

REDUCTION IN PRICE. All approx. 8,000 to lb. American Saccharin
 5,000 lbs. ... 1-gr. 11/6 ½-gr. 15/9 ⅓-gr. 17/3 per 1,000
 10,000 " " 11/3 " 15/6 " 17/-
 20,000 " " 11/- " 15/3 " 16/0 " 16/6
 50,000 " " 10/9 " 16/- " 16/3
 100,000 " " 10/6 " 15/9 " 16/3
 Cash with Order. Red Post Paid. Immediate Delivery.
 Orders less than 6,000 will be 6d. per 1,000 extra.

MEYER, Manufacturing Chemists, 98 COLMORE ROW, BIRMINGHAM

SACCHARIN TABLETS.

Exceptional Offer. ½ grain 330. Cash with Order.
 1 lb. (Average over 7,000) £3 3 0
 5 lb. " " @ £3 2 0
 10 lb. " " @ £3 1 0
 20 lb. " " @ £3 0 0

MARSH, BROOKS & Co., 58 Victoria Sq., BOLTON.

FOR SALE.

100 lb. Insoluble Saccharine, Monsanto 550,
 i/b, packed in 25-lb. tins.

Offers to 8/57, Office of THE CHEMIST AND
 DRUGGIST, 42 Cannon Street, E.C. 4.

Saccharin Tablets.

½ gr., 330 in 1. Guaranteed the Genuine Article.
 £4 per lb. Cash with Order.
 Delivery per return. Reg. post paid. Special quotations for
 large quantities.
**HENRY BOWN, Chemist, 154 Cemetery Road,
 SHEFFIELD.**
 Telegrams: 2742 Sheffield.

MEET COMPETITION!
SACCHARIN TEA SWEETENERS.
 (UNCONTROLLED).

In Envelopes of 100, Retail 1/7½
 Wholesale, 19/6 per doz., less 25%.
 Carriage paid. Cash with order.
A. S. PRICE & CO. Ltd., Blackheath, BIRMINGHAM

DAMANCY & CO., HARROW
SACCHARIN (Monsanto) TABLETS

1/4 gr. 330 in each tablet 5/- per 1000.
 1/4 gr. " " " " " 7/- " "
 1/4 gr. " " " " " 10/- " "
 Cash with order. Carriage paid.

SACCHARIN. SACCHARIN.

500 Strength. Soluble.
200/- per pound. Carriage paid.

Write—**WM. HARRISON, SACCHARIN SPECIALIST** Acomb, York.

Saccharin Tablets
AT CONTROLLED PRICES

Full Strength (½-gr., 330 in 1).
 11/- per 1000, or 77/- per lb.
 In bottles of 100 @ 15/7 per doz.
 " " 200 @ 30/- "
 " boxes of 100 @ 15/1 "
 Half-Strength (⅓-gr., 330 in 1).
 6/6 per 1000, or 45/6 per lb.
 In bottles of 100 @ 9/8 per doz.
 " " 200 @ 18/4 "
 " boxes of 100 @ 9/2 "

ASPIRIN TABLETS (5 gr.)

Guaranteed B.P.
 In bulk @ 15/- per 1000.
 In bottles of 25's @ 6/- per doz.
 " " 50's @ 11/- "
ALL PACKING INCLUDED. EX WORKS.

THE
Globe Tablet & Manufacturing Co.
36 Mark Lane, E.C. 3.

Works : Globe Works, Nunhead Green, S.E.
 Phones : City 8203; New Cross 115.

**Envelopes containing 100
 UNCONTROLLED**

SACCHARINE TABLETS

½ gr., 330, @ 15/- per dozen net.

½ gr., 330, @ 20/- " "

Tubes, 1/- per dozen extra.

Special quotations for bulk.

Carriage paid. Cash with Order.
 Delivery day after receipt of Order.

THE CLEVELEYS CHEMICAL COMPANY
 22 & 23 Gt. Tower Street, London, E.C. 3.

AMPOULES.

JOHN BELL & CROYDEN, Ltd.,
 Wigmore Street, W.1.
Specialise in Ampoule Filling.

**CHEMISTS' SPECIAL FORMULÆ PREPARED
 ACCORDING TO REQUIREMENTS.**

**Special Quotations for Large Quantities.
 SEND FOR PRICE LIST.**

A Fair Profit:

**36% ON SELLING PRICE
54% ON COST**

There is a bonus given with a window show order for "QUINPHOS," the conditions being simply the exhibition of a small high-class showcard in a prominent position in the window and an order for a **SMALL** amount of the goods. This means that the **PROFIT ON "QUINPHOS"** is **36% on selling price, or 54% on cost.**

"QUINPHOS"

Regd.

The Great Tonic.

Retail Prices LIQUID OR TABLETS **1/3, 2/11, 5/-**

Please write for full particulars to the Sole Makers:

THOMPSON & CAPPER, LTD.

MANESTY BUILDINGS, COLLEGE LANE, LIVERPOOL.

Telegrams: "Sanitas Liverpool."

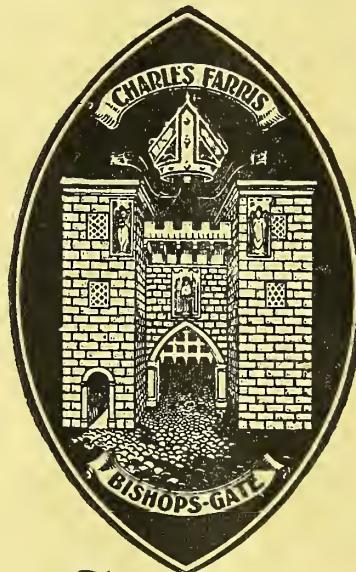
Telephone: 2060 Royal (Private Branch Exchange).

ESTABLISHED 1843.

'FARRISOL' — ENGLISH MADE — White Medicinal Oil, (PARAFFINUM LIQUIDUM). B.P.

Guaranteed to exactly conform to B.P. tests.

RECOMMENDED AND ADOPTED BY THE HIGHEST MEDICAL AUTHORITIES.
ABSOLUTELY ODOURLESS AND TASTELESS.



**Farris's
WHITE AND YELLOW BEES WAX,
PURE REFINED SPERMACETI,
PARAFFIN WAX,
VEGETABLE WAX, CERESINE, &c. &c.**

Samples Matched and Lowest Prices Given.

The ONLY Actual MANUFACTURING WAX CHANDLER in the City of London.

CHARLES FARRIS, 71 BISHOPSGATE, LONDON, E.C.
Works—**HELMET COURT, BISHOPSGATE, E.C.**

Warehouses & Stores—91 & 93 BISHOPSGATE, and 12 WORMWOOD STREET, E.C.

TELEPHONES—LONDON WALL 9397 and 9398.

TELEGRAMS—“WAXINESS, LED, LONDON.”

TELEPHONE:
CITY 7
PRIVATE
BRANCH
EXCHANGE

TELEGRAMS:
ELEVEN
CENT
LONDON



S. MAW SON & SONS LTD.
7/12 ALDERSGATE STREET
LONDON
ENGLAND

CABLES:
ELEVEN
LONDON
—
CODE:
A : B : C
4TH & 5TH
EDITION

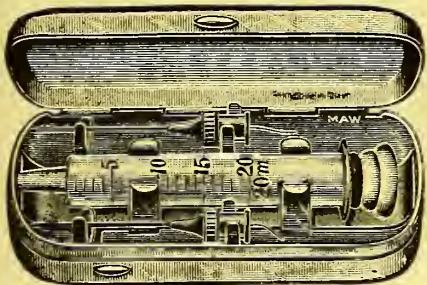


Maw's Page.

NUMBER 378.

JAN. 11, 1919

The "Epoch" Hypodermic Syringe



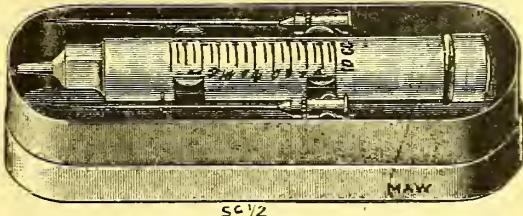
Supplied in Metal Cases,
with two Needles.

These Syringes are made entirely in glass, of finest workmanship and exquisite finish; consisting of two pieces—nozzle and barrel combined, and piston, which may be dismantled for sterilisation, and reassembled with the greatest ease. By an ingenious device the graduations have been rendered indelible under any treatment and all conditions.

10 c.c.	-	9/-	each.
5 c.c.	-	6/-	„
20 min.	-	4/-	„

Maw's 3-piece, All-Glass Aseptic Syringe

These Syringes meet all the modern demands for absolute asepsis. Each of the parts being accurately ground to its component part, no lubricant is necessary to ensure smooth working and accurate dosage. They are put up in well-finished nickel-plated cases, with two steel needles.



20 minim	-	6/-	each.
2 c.c.	-	7/-	„
			5 cc. - 12/- each
			10 c.c. - 15/- „

All Hypodermic Syringes issued by us are carefully tested with the actual needles supplied. Spare Needles stocked in all sizes.

BISHOP'S PIPERAZINE CITRATE

A REMEDY OF ESTABLISHED AND DEFINITE VALUE

**IN GOUT, LUMBAGO, SCIATICA, NEURITIS, GRAVEL, STONE,
AND ALL MANIFESTATIONS OF THE URIC ACID DIATHESIS.**

Prescribed by the British Medical Profession for 20 years.

The undoubtedly superiority of Bishop's Piperazine Citrate, and preparations containing it, is due to the stability of the salt, Piperazine Citrate, which, being non-volatile and non-hygroscopic, undergoes no change upon exposure to heat or moisture, and thus lends itself to all manufacturing and dispensing processes.

Piperazine base, on the contrary, is so volatile and hygroscopic that it cannot be manufactured or dispensed with any degree of accuracy. Hence the unreliability of all Piperazine preparations that are not made with Bishop's Piperazine Citrate.

WE CAN, HOWEVER, SUPPLY PIPERAZINE BASE IN LARGE OR SMALL QUANTITIES, FOR MANUFACTURERS WHOSE PROCESSES CALL FOR IT.

Prices and Particulars on application to—

ALFRED BISHOP, LTD. MANUFACTURING CHEMISTS,
48 SPELMAN STREET, LONDON, E.1.

Bishop's Piperazine Citrate is the most powerful uric acid solvent known. It neutralises twelve times as much uric acid as any other alkaline solvent, and the resulting Piperazine urate is eight times as soluble as any other urate.

Bishop's Piperazine Citrate is non-irritant and non-toxic. It does not derange the digestive functions and is easily borne by even sensitive stomachs.

Bishop's Piperazine Citrate is supplied in crystalline powder for dispensing, and also in the Granular Effervescent form and Varalettes. The value and reliability of these preparations have been established by abundant clinical experience.

"Newberry's" FRANCIS NEWBERRY & SONS LTD.

Cream Embrocation

GOOD REPEATER

Giving clear profit of $33\frac{1}{3}$ per cent. on Protected Retail Prices.

QUALITY	-	RIGHT
PRICE	-	RIGHT
PROFIT	-	RIGHT

PRICES (P.A.T.A.):

1/3 Retail	....	10/- per dozen.
2/3 "	....	18/- "

CHARTERHOUSE SQUARE,
LONDON, E.C.1.

MAGNUS, MABEE & REYNARD, Inc.

NEW YORK, U.S.A.

IMPORTERS—MANUFACTURERS—EXPORTERS
ESSENTIAL OILS, DRUGS & CHEMICALS.

We offer at advantageous prices—

LIQUID STYRAX

Cases 80 lb. each (not U.S.P.)

CHLOROPHYLL

Alcohol and Oil, Soluble.

HELIOTROPE CRYSTALS

VANILLIN & COUMARIN

BALSAMS

COPAIBA—PERU—TOLU

An interesting and complete Catalogue covering the Drug and Essential Oil fields mailed on request.

CARNAUBA WAX

FATTY GREY.

Light Carbonate of Magnesia	Paraffin Wax
Heavy Carbonate of Magnesia	Camphor Oil, White
Light Calcined Magnesia	Camphor $\frac{1}{4}$ -oz. Squares
Heavy Calcined Magnesia	Precipitated Chalk
Potassium Sulphoguaiacolate	Isinglass, Kobé No. 1.

BLOCK LIQUORICE **PURE**
EUCALYPTUS OIL **SICILIAN**
LANOLINE B.P. **70/75% B.P.**
POWDERED SOAP
PHARMACEUTICAL CASEIN

MALLAGH & CO. (T. H. Mallagh, F.C.S.)

Pharmaceutical and Technical Chemicals,

19 St. Dunstan's Hill, and 9 Harp Lane, E.C. 3.

Factory :

189 Great Dover Street, Southwark, S.E. 1.

Telephone : Avenue 896.

Telegraphic Address : "Chemorol, Phone, London."

“HEALO” always Profitable

Our illustration is a Photographic Reproduction of the ATTRACTIVE DISPLAY CASE AND STYLISH CARD we supply with all orders, in addition to a liberal quantity of dainty Free Samples, Smart Showbills and Dummy Outers.



TERMS:

10/6 per dozen

½-doz. free with 4 doz.; 1 doz. free with 6 doz.

Large Size, 27/- per dozen

RETAIL PRICE:

1/3

ON THE
P.A.T.A.

3/-

“HEALO”

SKIN SOAP

Retail Price 9d. P.A.T.A.

Costs 6/3 per doz.

(Showcards supplied)

BLOOD ENRICHERS

Retail Price - - 1/3 P.A.T.A.

Costs - - 10/6 per doz.

(Showcards supplied).

Why not send now for full particulars?

MAURICE SMITH & CO., LTD.
Manufacturing Chemists and Food Specialists,
 KIDDERMINSTER.

A resolution for 1919:

**Adopt one of our
Series Labels— but
do it NOW !**

PAGE 15
AYRTON'S

This week we have posted our usual Quarterly List, which gives the current prices of Drugs Sundries, Packed Goods, Tablets and Capsules.

We have also posted the "Star," "Mortar," and "Anchor" Lists, a special feature of which is the suggested retail prices.

If your copy has not arrived, or if you are not on our Mailing List and would like a copy, please post us a card.

USE THE AYRTON SHOWCARD SERVICE— IT'S FREE.

Ayrtон, Saunders & Co. Ltd.
LIVERPOOL

Salvo Petrolia

the perfection of Petroleum Jelly

in qualities, white, lemon, yellow and golden, for pharmaceutical purposes.

MANUFACTURED SOLELY BY

The Dee Oil Company, Ltd.

Delta Works . Bootle . Liverpool.

Packed in barrels, kegs and smaller packages according to requirements.

Inquiries are solicited for this article of **BRITISH MANUFACTURE**, and buyers may rely that for quality and price it will meet any competition

Other Grades

Petroleum Jellies, White Bases, &c.

Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

Phone: 136 Bootle.

Wires: "Cestrian Liverpool."



ESTABLISHED 1890.

The London Oil Refining Co.,

Browning St., Lucy St.,
MANCHESTER, S.W.

Wire
"Premier,"
Manchester.

Importers.
Merchants
Manufacturers.

'Phone
Trafford Pk
699 & 285

General Supplies
for
Wholesale Druggists



Sweet, Pale,
Brillantine Oil,
Etc.



LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,
Manufacturing Chemists

HULL.

INVITE the Trade to take up the following valuable P.A.T.A: Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

P.A.T.A. Protected Dozen
Retail Price. Net.

*LOSALL'S SALT (well advertised), tins 9d. 6/6
bottles in cartons 2/- 16/-

*Losall's Salt sells so well, surely it
must pay Pharmacists to stock such
a big profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box 6d. Box. Doz.

FOR LARGE BUYERS.

Dry Shampoo

(Liquid).

Also Brilliantines, Toilet Paraffins, Lime Creams, Pomade Hongroise, Tooth Powder, Dental Creams, Vanishing Creams, Shampoo Powders, and All Toilet Goods.

LOW PRICES for
HIGH QUALITY.

STOKES & CO., Ltd.

Manufacturing Chemists and Perfumers,
Desk 11, 31-35 Lower Castle, BRISTOL.

(1)



FOR 1919
WATCH OUR
BIG ADVERTISING
SCHEME FOR

SNOWLEEN

and Order Now to prevent disappointment to
your Customers.

*We will send free to any Chemist a sample of above
with Prices and Bonus Terms on receipt of address.*

SHOWS A BIG PROFIT.

WELL ADVERTISED.

QUICK SALES GUARANTEED

PRICES

Per doz. ...	7/9
Gross ...	92/-

BONUSES

$\frac{1}{2}$ gross receives $\frac{1}{2}$ dozen free.

1 " " $1\frac{1}{4}$ " "

Protected Price 1/-.

WHITE BAND MFG. CO., Ltd.
SOUTH CROYDON.





An Ideal Gift!

GoCo PERFUME WANDS

(SOLIDIFIED SCENTS)

A N attractive and saleable NOVELTY in Perfumes prepared from Concentrated Floral Extracts which impart a delightful and lasting fragrance to the HANDKERCHIEFS, LINEN, WEARING APPAREL, STATIONERY, ETC.

One Touch & the Fragrance remains.

2/6 size, 21/- per doz. (P.A.T.A.)

IN ATTRACTIVE SHOWBOX & SHOWCARDS.

VIOLET
ROSE
JASMIN
WALLFLOWER
OPONONAX
LILY OF
THE VALLEY
HELIOTROPE
JOCKEY CLUB
TREFLE

GODDON & COKE, Manufacturing Chemists,
49 Lamb's Conduit Street, London, W.C.I.

Or the Wholesale London Houses: Messrs. Butler & Crispe; F. Newbery & Sons; Hockin Wilson's; and Lorimer & Moyes, Glasgow.

Vaseline

Trade Mark Registered

PREPARATIONS.

Per Gross

Pomade, in 1 gross boxes, screw cap 35/11

.. .. $\frac{1}{2}$ 40/4

Per Doz

Perfumed White, Blue Seal 6/6

.. .. No. 1 11/3

.. .. Glass Stopper 17/7

*Delicately perfumed, especially adapted for
Toilet purposes and as a dressing for the hair.*

Chesebrough Manufacturing Co.,
42 Holborn Viaduct, London, E.C.1.

F. M. RUDD,
Bronson,
MICHIGAN,
U.S.A.

GENUINE AMERICAN PEPPERMINT OIL

"Columbia" Natural
"Diamond White"
Re-distilled.

Finest qualities for Druggists,
Distillers and Confectioners.

Sole Consignees in United Kingdom—
R. W. GREEFF & CO.
Thames House,
Queen St. Place, LONDON, E.C.

FINEST OIL SOAP

(Tivolié de Gourjon, Marseilles).

PURE SAFFRON

(A. Jaurand, Orleans).

PURE RICE STARCH POWDER.
CONFECTIONERS' COLOURS.
ANILINE DYES for all purposes.

For particulars and samples, apply to
PRONK, DAVIS & RUSBY, LTD.
13 Haydon Street, LONDON, E.1.

*Bay Rum
Cantharidine
& Rosemary*
FOR THE HAIR.

SMART PACK.

ESPECIALLY EFFECTIVE FORMULA.

ATTRACTIVE ART SHOWCARDS.

8-oz. Bottles, 8/- dozen. 99/- gross.

Less 5 per cent., cash 14 days.

**SPECIAL
OFFER**
DURING JANUARY

WITH EVERY ORDER
for 1 gross we will enclose
 $\frac{1}{2}$ gross of our Famous
SKIN TABLETS, retailing
9/-, FREE.

CARMOL MANUFACTURING CO.
28 BATH ROW, BIRMINGHAM.

Enolin

TOOTH PASTE

"STRONG" OR "MILD"

The Super Paste.

SOLE MANUFACTURERS & PROPRIETORS:

A. & E. CARRERAS, Perfumers,
Offices: 207 King St., Hammersmith, London, W. 6.

Telephone: HAMMERSMITH 600.
Telegrams: "ESOLINDOL, HAMMER, LONDON."

GET IT NOW!

We make you an Offer on CASH WITH ORDER Terms.
All goods sent CARRIAGE PAID, FREE CASES.

This line is most strikingly got up in two-coloured Carton.
Sells at sight. It is a genuine preparation, being a clear
amber Liniment. Supersedes most other Liniments for
efficiency and rapidity in action. Send your order NOW.

We offer You—

**1 gross lot of 1/3 'Magnetum' Liniment at 9/-
dozen, net cash with order, with 1 doz. extra,
free of charge, plus 3 doz. 7½d. 'Magnetum'
Corn Cure, free of charge.**

Selling 13 doz. 1/3 'Magnetum' Liniment at 1/3 each	£ s. d.
,, 3 doz. 7½d. 'Magnetum' Corn Cure at 7½d. ,,	10 17 6
realises	



Your outlay is therefore 5 8 0

Shows a clear Profit of £5 9 6

Address all communications and make all Cheques payable
to the Sole Manufacturers and Exclusive Proprietors—

NI-VERRE Chemical Coy.
5, 6 & 7 ORMEAU AVENUE, BELFAST, Ireland.

Clear Profit of 100 %

BRITISH MADE TIN FOIL

Highly polished foils—printed, lacquered, embossed or plain.
Guaranteed free from lead for tobacco, cigarettes, food-
stuffs, etc. In sheets or reels—large or small quantities.

Also collapsible tubes in pure tin, pure lead or lead-
coated with tin for rubber solution, artists' colours,
tooth pastes and other toilet preparations.

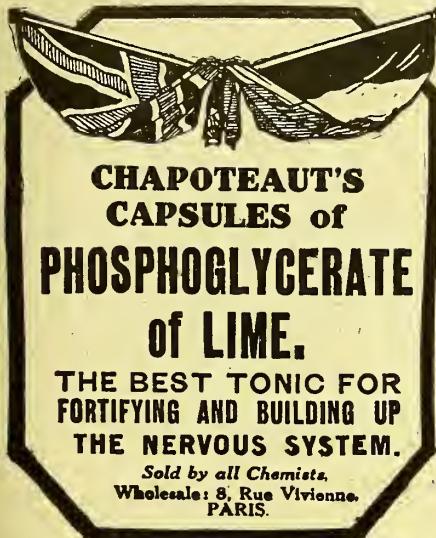
Manufactured by

Venesta Ltd.
1. Great Tower St. E.C.
London
England

LABORATORY
OF GENERAL PHARMACOLOGY,
8, Rue Vivienne, Paris.

LONDON AGENTS :

WILCOX, JOZEAU & CO., 49, Haymarket, S. W.



MORRHUOL CHAPOTEAUT



CAPSULES

MORRHUOL DE CHAPOTEAUT is extracted from cod-liver oil, and contains all its efficacious properties without the disagreeable taste.

It cures Coughs, Bronchitis and Catarrh, restores the appetite, and gives force to feeble persons.

SOLD BY ALL DRUGGISTS.

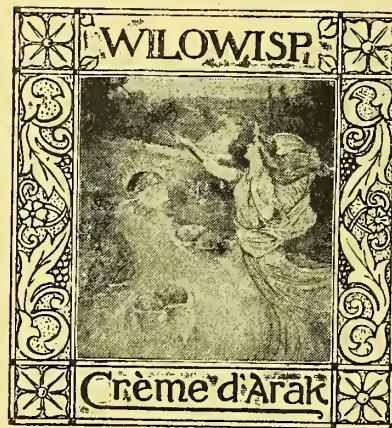
CHANDRON'S
DROPS
(Gouttes des Colonies)

A harmless antiseptic preventative against CHOLERA-FERMENTATION-INDIGESTION & other intestinal disturbances.

SOLD BY ALL CHEMISTS



LONDON AGENTS
HEPPELL & CO., 164, Piccadilly, W.



WILLOWISP CRÈME d'ARAK

An ideal
VANISHING CREAM
for the Face and Hands. Neither
greasy nor sticky.

PROMPT SUPPLIES.
ATTRACTIVELY PACKED.
LIBERAL TERMS.

RETAIL (P.A.T.A.) 1/- PER POT.

Wholesale Price, 8/- per dozen. Window Show terms on application.

Also "Arak Foam" Shampoo, "Henna" Shampoo, "Dry" Shampoo.

ALL WELL-KNOWN GOOD SELLING LINES.

JOHN TIMPSON & CO., Ltd., 104 & 106 GOLDEN LANE, London, E.C. 1.

'GRAMS: "Porous, Barb, London."

'PHONES: City, 6910 6911.

Now!

is the time to get in a good supply of ANZORA CREAM. There's a big and steadily increasing demand for it **NOW**, and you will do well to share in the business. Anzora Cream and Anzora Viola are *real good sellers*: they will control even the most unruly head of hair, and can be recommended for the tousle-headed schoolboy, the smart young soldier, or the elderly man who wishes to make the most of his scanty locks. Your profit margin:—

11/6 per doz. Retailed at **18/-**
19/6 " " **30/-**

Showcards and Cut-outs sent on request.



MASTERS THE HAIR

THE ANZORA PERFUMERY CO.
28, 32, 34 WILLESDEN LANE, N.W. 6.



BE SURE AND ADD

La-Rola

Rose Bloom

TO YOUR STOCK AT ONCE,

as it is being largely advertised in the "Daily Mail," "Mirror," "Sketch," etc.

**Do not lose the business
through being out of stock.**

It is the most natural tint on the market, and is selling well wherever introduced.

Lait La-Rola & Glycerine & Cucumber
supplied as usual.

All these articles are protected at FACE VALUE.
Write for Display Terms and save 10%.

M. BEETHAM & SON, Cheltenham.



The EVAN WILLIAMS
ORIGINAL
Henna Shampoo

Our Business Policy

In common with practically every other trade we have to contend against the present difficulties in procuring raw materials.

The EVAN WILLIAMS' HENNA SHAMPOO is the only product of our factories. We rely solely upon this for our business and are therefore the Henna Specialists. This fact is of the greatest importance to dealers because the maintenance of our sales depends entirely upon the extremely high standard of quality associated with the name of Evan Williams.

If our clients have experienced any delay in securing consignments, we ask them to realise the difficulties with which we have to contend, and assure them it is our strict business policy to ration our stock and share it equally among our many friends.

The EVAN WILLIAMS Co. Ltd.
18 & 18a OGLE ST. FOLEY ST. LONDON W.1.

(1)

ACETIC ACID

(Canadian Product)

**Re-distilled
and
Technical**

**A. Boake Roberts
& Co., Ltd.**

**Stratford, London,
E. 15.**

P.A.T.A. NOTICE.

113 Temple Chambers, E.C. 4.

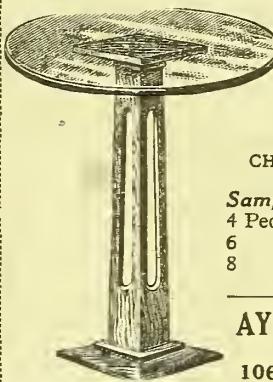
The following prices will come in force as from the date of this issue:—

Parke, Davis & Co.'s Goods.

Advert. Price.	Minimum Retail Price.	Minimum Wholesale Price.
1/3 Rennin Tabs. (40's)	... 1/3	10/6
1/3 Menthacones	... 1/3	9/5

Retail Subscriptions.

AN appeal has recently been posted to non-members urging them to join early in 1919, and stating reasons. A fair number have responded but a very much larger increase is required, and we invite those who have not remitted to forward their seven-and-sixpence (7/6) without delay. Address the Secretary, P.A.T.A., 113 Temple Chambers, E.C. 4.



THE Ideal Window Show

OAK PEDESTALS (9 in. to 30 in. high).

Plate-Glass SHELVES (Circles, Ovals, Squares).

CHARMING AND ARTISTIC.
LABOUR SAVING.

Sample Trial Sets containing—

4 Pedestals	...	4 Shelves	28/6
6	..	6	43/6
8	..	8	67/-

Net Cash, Carr. forward.

AYRTON-GRAHAM, Ltd.
SHOPFITTERS,
106 Duke St., LIVERPOOL.

"TOWER" EARTHENWARE FILTERS

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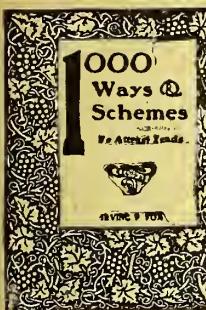
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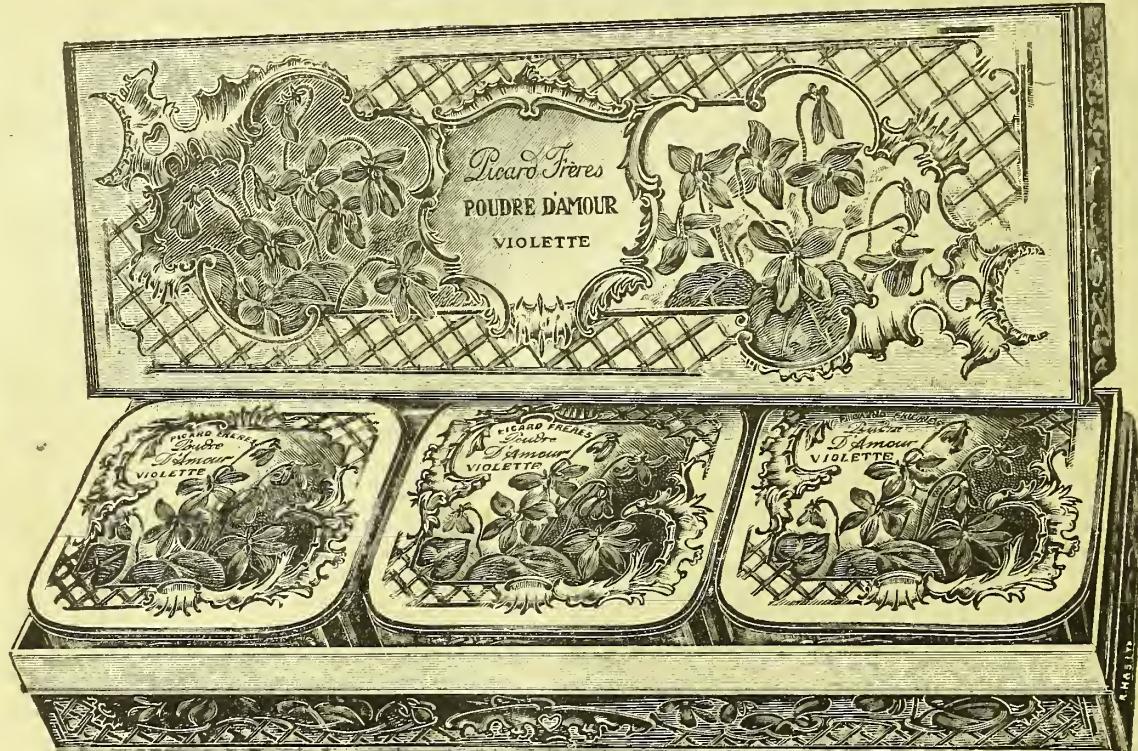
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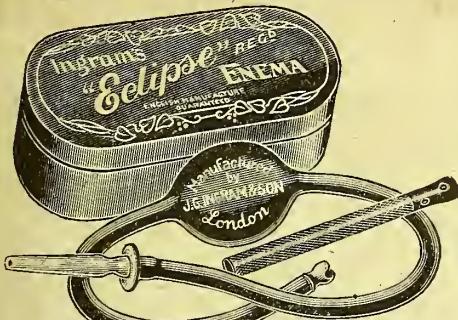
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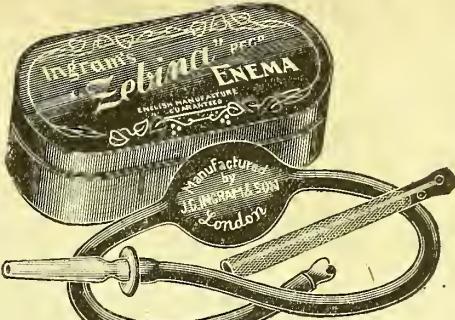
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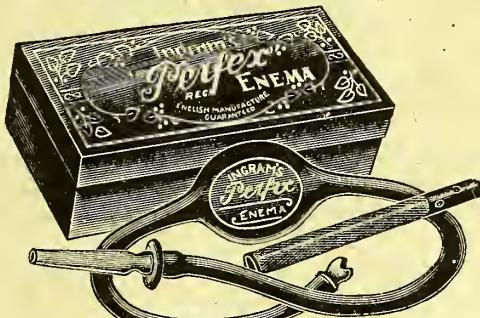
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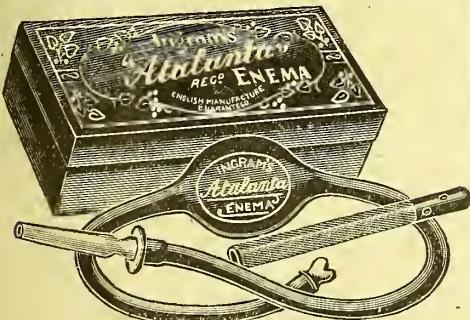
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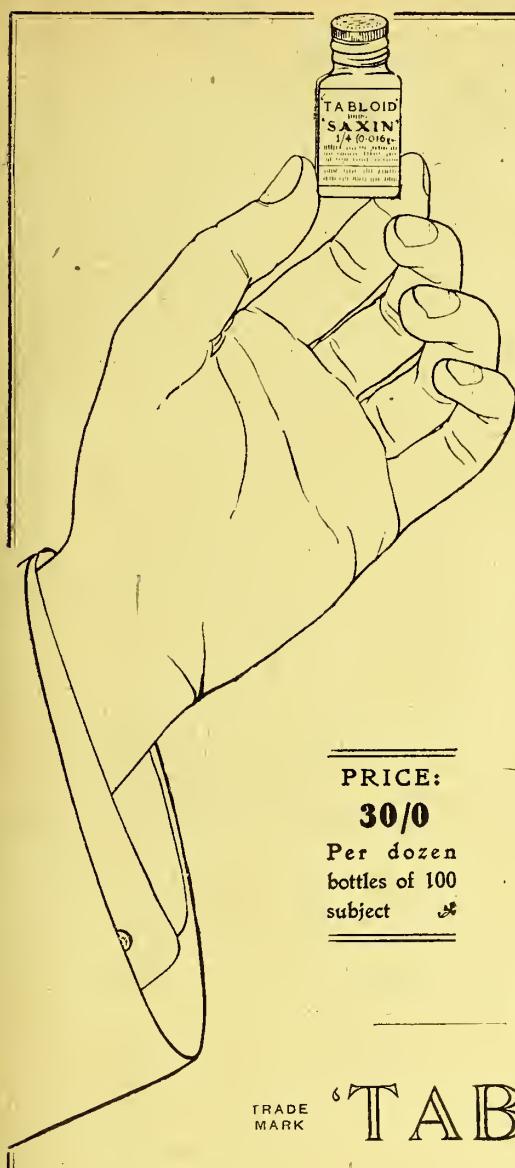
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Coming Events.

Sunday, January 12.

Amalgamated Society of Pharmacists, Drug and Chemical Workers, Progressive Pharmacy Club, Arundel Hotel, Victoria Embankment, London, W.C., at 11 A.M. Meeting of members and drug-trade assistants, Mr. Herbert Skinner in the chair.

Tuesday, January 14.

National Association of Women Pharmacists, London Group, Dr. Williams' Library, Gordon Square, W.C. 1, at 7.30 P.M. Address by Mr. Herbert Skinner on "Whitley Councils and their Relation to Pharmacy."

Wednesday, January 15

Leeds Chemists' Association. Paper by Mr. J. F. Gilmour, Editor of "The Pharmaceutical Journal."

Liverpool Chemists' Association. Royal Institution, Colquitt Street, at 8 P.M. Mr. F. Gladstone Hines on "The Only Way."

Manchester Pharmaceutical Association. Chess Club Rooms, 65 Market Street, at 3 P.M. Smoking-concert.

Manchester and Salford Chemists' Assistants' Association. Clarion Café, 50a, Market Street, Manchester. Whist-drive. Tickets (1s. 6d. each) from Mr. D. Abrams, Hon. Secretary, 162 Elizabeth Street, Cheetham, Manchester.

Thursday, January 16.

North London Pharmacists' Association. Progressive Pharmacy Club, Arundel Hotel, Victoria Embankment, London, W.C., at 3 P.M. Mr. Councillor Wolff on "The Proprietors' Side of a Whitley Council."

West Ham, etc. Association of Pharmacists. Earlham Hall, Forest Gate, London, E., at 7.30 P.M. Mr. W. S. Glynn-Jones, Secretary of the Pharmaceutical Society, on "Pharmaceutical Topics."

Friday, January 17.

Amalgamated Society of Pharmacists, Drug and Chemical Workers, Progressive Pharmacy Club, Arundel Hotel, Victoria Embankment, London, W.C., at 8 P.M. Meeting to form a public pharmacists' section of the Union.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

War Auxiliary Benevolent Fund.

The Pharmaceutical Society of Great Britain have sent us the third list of subscribers to this Fund, of which the following is a condensed form, the amounts subscribed by chemists through Associations being counted in the sum mentioned as having been received from the city, town, or county:

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Canterbury (second list) ...	11 18 0	Rogg, W. W. ...	5 5 0
Chesecrough Manufacturing Co. ...	10 10 0	Raines & Co. ...	26 5 0
Church, W. E. ...	1 0 0	Reynolds, H. ...	5 0 0
Clarendon (Miss) ...	0 10 6	Richardson, P. S. ...	2 2 0
Clegg, T. H. (Mrs.) ...	1 1 0	Rotherham ...	21 4 6
Coles, A. ...	0 10 0	Russell, R. L. ...	5 5 0
Coulson, T. ...	5 5 0	Sawdon, G. W. ...	1 1 0
Crispe, E. ...	5 5 0	Scarborough ...	60 10 0
Cumberland and Westmorland ...	188 3 0	Scott & Bowne, Ltd. 5 5 0	0 0 0
Dakin Bros., Ltd. ...	21 0 0	Scott, W. R. ...	1 1 0
Denwood (Mr.) ...	1 1 0	Shadforth, W. ...	10 10 0
Derbyshire ...	524 14 0	Shorrocks, M. (Miss) ...	1 1 0
Devon ...	55 3 0	Smethwick ...	57 2 0
Dewhurst, H. E. ...	0 10 6	Sunderland ...	154 15 0
Dunn, E. B. ...	3 3 0	Smith, T. H. ...	1 1 0
East Sussex ...	29 2 10	S.E. London ...	93 0 0
Eaton, E. S. (Miss) ...	1 0 0	Specchly, M. ...	10 10 0
Elder, C. ...	1 0 0	Squire & Co. ...	80 0 0
Essex ...	82 12 6	Swansea ...	81 4 6
Felton, W. ...	5 0 0	Tisbury (Miss) ...	1 0 0
Fordyce (Miss) ...	0 10 0	Tollitt (Mr.) ...	0 5 0
Freke (Mrs.) ...	5 5 0	Trick, W. B. ...	4 0 0
Frost, W. T. ...	5 0 0	Tucker, W. T. ...	10 0 0
Gildart, Miss ...	1 0 0	Turner (Miss) ...	0 10 6
Gray, A. E. ...	1 0 0	Ullett, F. ...	10 10 0
Halifax ...	70 10 0	Watson, E. ...	10 10 0
Hancock (Mr.) ...	0 10 0	Weekes, A. H. G. ...	1 0 0
Hearle, J. ...	5 5 0	West Bromwich ...	23 2 0
Hirst, H. C. ...	0 10 0	Wigan ...	18 2 0
Hyde, J. ...	2 2 0	Wileox, Jozean & Co. 25 0 0	0 0 0
Imrie, J. R. ...	0 10 0	Withers, E. N. ...	5 5 0
Jenkins, H. ...	5 5 0	Withington, H. M. ...	1 0 0
Johnson, W. ...	1 1 0	Withington, W. M. ...	1 0 0
Knowles, L. ...	2 2 0	Wood, James, Ltd. ...	5 0 0
Lloyd, H. ...	892 14 0	Wright, A. ...	2 2 0
	5 0 0	Wright, Layman & Umney, Ltd. ...	105 0 0
		Young & Harrison ...	4 4 0
		The total amount received to date is 7,714L 2s. 4d.	

Nitrate for Farmers.

The Board of Agriculture announce that the Government can offer a certain amount of nitrate of soda for delivery in the early months of 1919 for agricultural purposes. The price to farmers will be 20/- per ton in bags for nitrate in quantities of not less than two tons delivered to purchaser's nearest railway station in Great Britain, or free on board port in Great Britain in the case of deliveries to Ireland. The material offered is refined 96-per-cent. pure, but no allowance will be made for variations in quality. For sales for delivery from Government store by road in purchaser's cart, the price will be 10/- per ton less. Not less than 10 cwt. will be sold in this way. For sales for delivery ex vendors store or shop, the vendor may increase the price of 20/- per ton by the following additions according to the quantity purchased: 1 ton and over, 10s. per ton; 2 cwt. and over, but less than 1 ton, 1s. per cwt.; 1 cwt. and over, but less than 2 cwt., 2s. per cwt.; 28 lb. and over, but less than 1 cwt., 3s. per cwt.; 14 lb. and over, but less than 28 lb., 4s. per cwt., plus cost, if any, of delivery from

store or shop to consumer's premises. Where credit is given by a merchant to his buyer, a reasonable extra charge may be made, but the discount allowed for net cash must be quoted on the invoice given to the buyer, and must be such as to bring the net cash price within the maximum authorised. A discount of 10s. per ton will be allowed by the Government to agricultural merchants, co-operative societies, and fertiliser-manufacturers. Delivery will be made by the Ministry of Munitions, who will require cash before delivery, and will ask for consigning instructions when the nitrate is ready for dispatch. Farmers' orders should be placed with an agricultural merchant or co-operative society without delay.

War Regulations Altered.

Since our last issue the following Regulations or Orders under the Defence of the Realm Act have been altered or suspended. The references are to *The Chemist and Druggist Diary*, 1919:

P. 71. *Formaldehyde*.—All restrictions on the sale and purchase of formaldehyde have been removed by the Government of the United States, and free export, as in pre-war times, is permitted as from January 1. Consignments of this chemical will not be requisitioned on arrival. The Formaldehyde (Dealing) Order of July 8, 1918, fixing prices, will be cancelled as from March 1.

P. 72. *Lighting*.—The ration of gas and electricity to household consumers is increased 25 per cent., beginning with the New Year. This concession applies only to England and Wales.

P. 73. *Oxygen*.—The Oxygen Order, 1917, has been cancelled.

Petrol.—Though the restrictions on the use of motor-cars have been removed altogether, the Petrol Control Department have not dispensed with the system of licences to obtain motor spirit. Under the Finance Act, 1916, a duty is payable by holders, and until the Act is repealed by Parliament, licensees will continue to be necessary. The Motor Spirit Restriction Orders will be revoked entirely by the Board of Trade from January 10.

Postal Restrictions.—A permit is no longer required to send books and newspapers by post to any foreign country.

P. 75. *Tobacco*.—The various tobacco restriction Orders made under the Defence of the Realm Act have been revoked.

Contracts.

Tenders have been accepted as follows:

Bishop's Castle Guardians.—Mr. J. E. Gwilliam, chemist and druggist, medicines, etc.

Oxford City Council.—Mr. G. J. Walklett, chemist and druggist, disinfectants.

Birmingham.

Influenza is now on the wane here. One pharmacist has of late been selling weekly 100 6-oz. bottles of his "flu" mixture.

Artisans are agitating for a free Saturday. This, if it comes, will undoubtedly affect the shopkeeper—not adversely, it is thought.

Mr. Ernest Canning, in a letter to the "Birmingham Post," suggests that an exhibition of all articles made locally to help on the war be held and a record made.

A considerable number of bogus 10s. Treasury Notes has recently been passed in Birmingham, and the police have issued a public warning. The notes are clever imitations in red, but bear no watermark.

Liverpool.

The turn-of-the-year lull has passed, and business is again booming.

American preparations are naturally much in demand, owing to the large number of our United States Allies in the city. Supplies, however, come forward very slowly.

Owing to the present system of packing for parcel-post largely in bags instead of hampers, many bottles of medicine, perfume, and so forth, sent to distant parts of the country have perished. The Post Office accepts no liability for the loss of fluids; and as packing seems to offer no certain protection the grievance is serious.

On December 19, 1918, the staff of Thompson & Capper, Ltd., and their friends were the guests of Mr. Edwin Thompson (governing director) and Mrs. Thompson at their first annual social function, held at the Gainsborough Café. About 150 guests were present, including Mr. Arnold Collinson (director), and Mr. R. Garner (general manager). A presentation was made to Mr. Thompson in the form of a silver rose-bowl, suitably inscribed. This was presented by Mr. Garner as a token of the staff's esteem and loyalty. Mrs. Thompson was the recipient of a bouquet of roses.

Mr. Thompson made eloquent acknowledgment. Each lady member of the staff was presented with a brooch and each gentleman with cuff-links, accompanied by a souvenir programme of an excellent concert contributed entirely by the staff. Dancing and whist completed the evening, with a short interval for refreshments. The only regret of everyone concerned was that the lighting and heating restrictions were responsible for an all-too-early curtailment of an enjoyable evening.

Manchester.

Assistants and apprentices are still very scarce. Although several pharmacists are making every effort to obtain the demobilisation of their old assistants (who are anxious to return), very little success has attended their efforts up to the present.

Most chemists are now showing posters notifying the public that pure medicinal glycerin is once more obtainable. Quite a brisk business was done by those who were "first in the field"; but now everyone has got a supply the sales have dropped to normal pre-war demands. The prices now being asked are very variable, and will have to be modified considerably before long.

There is quite an epidemic in the scarcity of infants' foods in Manchester and surrounding districts. A well-known make (which, by the way, advanced in price on January 1) is completely off the map. One chemist was informed by a lady customer to whom he supplied two tins that her baby had been without its regular food for two days, and she had tried fifteen different chemists' shops without being able to get any.

During his visit to Manchester President Wilson heartily congratulated the civic heads, the Lord Mayor, and Chief Constable, on the excellent manner in which the arrangements had been carried out and at such short notice. At the ceremony in the Free Trade Hall, where the President received the Freedom of Manchester, were seen many distinguished Manchester business men, including several well-known pharmacists and chemical merchants.

Mr. E. F. W. Thorp, chemist and druggist, 96 Princess Road, Moss Side, has retired from business, having disposed of his pharmacy to Hall & Co., who have several chemists' businesses in Moss Side. Mr. Thorp, who is a well-known Manchester pharmacist, has been in business twenty-five years, and since the war broke out has rendered yeoman service as chemist and dispenser at the Willow Bank Red Cross Hospital, Moss Side. Mr. and Mrs. Thorp and family have gone to live at West Kirkby, near Liverpool, and carry the good wishes of many friends in their retirement.

Nottingham.

Sir Jesse Boot, in an interview given on January 8, denies that Boot's Pure Drug Co., Ltd., had taken over the Government factory at Chilwell.

One effect of the influenza epidemic has been to reduce stocks to an unprecedented degree. There is an extraordinary scarcity of patent medicines, one chemist last week finding himself out of 160 lines, while packed goods were almost as scarce. One firm has been vainly trying for a week to obtain a clinical thermometer.

The partial demobilisation, small though it is, of men belonging to other walks of life has had the effect of intensifying the difficulties of several Nottingham chemists whose lady dispensers have given notice to leave on account of their husbands' return. Retailers are placed in a perplexing position, since they cannot, or at least will not, engage more lady assistants now that they are expecting the return of the men. Some look like being stranded without any help at all.

Sheffield.

Sheffield has been very badly hit by the snowstorm, especially as regards the telephone service.

The classes at the Education Committee's Secondary School have recommenced. Particulars may be obtained from Mr. E. Preston, Ph.C., Barker's Pool.

The supply of turpentine lately has not nearly met the demands of retailers. Even when licences for given quantities have been granted it has been impossible to secure much above a quarter of the quantity allowed.

The lack of transport, added to the shortage of staff in the wholesale houses, is causing pharmacists a considerable amount of inconvenience. It is quite a common thing for goods from London to be a fortnight on the journey.

The price for Glaxo at the Town Hall has much disturbed retailers, 3s. 8d. being charged for the 2-lb. tin, which on the revised prices is retailed at 7s. 6d. It appears that this price is fixed by the Food Controller for infants' welfare departments, and the loss is made up by a Treasury grant.

Miscellaneous.

BEZOL.—The tax of 6d. per gallon on home-produced benzol, which was to have come into force on January 1, has been suspended.

SALE OF MINERAL-WATER PLANT.—The mineral-water factory of Pain & Bayles, Ipswich, having recently been sold, the plant came under the hammer on January 3. Among the prices realised was 700/- for 500 dozen siphons. The factory had been established about eighteen years.

FIRE.—A serious fire occurred, recently, at the shop of Mr. William Crompton, chemist and druggist, 162 and 164 Bolton Street, Bury. The fire was prevented from spreading to the adjoining premises, and was ultimately got under, but not before practically the whole of the stock had been destroyed in both shops and a portion of the roof had fallen in.

VOLUNTEER DISBANDMENT.—Orders for January to the Volunteer battalions notify that rifles and equipment are to be restored to stores at once. The War Office letter states that the purpose is "for general overhaul." They are to remain at headquarters for safe custody and preservation. For the time being clothing issued by the Territorial Association may be retained, so the step need not be taken as the last incident in the life of the Volunteer Corps, though without arms and equipment the men cannot parade.

OPERTUNE WAR-WORK.—Early in 1917, Mr. Arthur Gledhill, a director of G. H. Gledhill & Sons, Ltd., cash-register manufacturers, etc., Halifax, was struck by the inadequacy of existing methods of releasing bombs. Mr. Gledhill submitted to the proper authorities an invention of his own, which was accepted, and has been the means of preserving many lives from accident. Messrs. Gledhill extended their works, and were running night and day during 1918 until the signing of the armistice. They have fitted over 2,000 aeroplanes with gears, and at the time of the armistice had worked up to an output of gears for 120 aeroplanes weekly.

INSTITUTE OF CHEMISTRY.—Part IV. of the "Proceedings" for 1918 has been published this week. It is announced that local sections have been formed at Birmingham, Edinburgh, Glasgow, Gretna, Liverpool, Manchester, and Swansea. The Council has agreed to become associated as a federal with the proposed Federal Council of Chemical Societies. The annual subscriptions payable by Fellows and students have been doubled, and that of Associates raised from 1/- 1s. to 1/- 1s. 6d. A memorandum relating to a suggested Government chemical service is printed, in which occurs the following paragraph:

The Council of the Institute regard it as a first principle that the Government should take steps to remove the confusion (existing in this, but in no other country) which arises from the use of the title "chemist" by those who practice pharmacy.

A list is published of those connected with the Institute who have served with the Forces during the present war.

BOMBING POISON-GAS FACTORIES.—Major-General Sir H. M. Trentham, commanding the Independent Force of the Royal Air Force, has issued an interesting despatch regarding the bombing operations which were such an important factor in defeating the Germans. Regarding one of the series of attacks on the Badische Anilin und Soda Fabrik at Mannheim the dispatch states:

On the night of August 25-26 two machines of No. 215 Squadron made their first attack on the Badische Anilin und Soda Fabrik at Mannheim.

The two machines, piloted by Captain Lawson and Lieutenant Purvis, left at eight o'clock. One pilot shut off his engine at 5,000 feet and glided in on the target from the N.W., following the river. He was at once picked up and held in the beams of the searchlights, and an intense anti-aircraft barrage was put up. The machine continually changed its course, but could not shake off the searchlights, and the pilot was completely blinded by the glare. At this moment the second machine glided in, with its engine almost stopped, underneath the first machine, got immediately over the works, below the tops of the factory chimneys, and released its bombs right into the works. The searchlights at once turned on to this machine, freeing the first machine from their glare. This machine then turned and made straight for the works as low as the second machine amongst the chimneys, and released its bombs. The searchlights were turned almost horizontally to the ground and the anti-aircraft guns were firing right across the works and factories almost horizontally. In spite of this, the two machines remained at a low altitude and swept the factories, works, guns, and searchlights with machine-gun fire. On the return journey both of these machines passed through rain and thick clouds, whilst lightning and thunder were prevalent throughout the trip.

IN THE COURTS.—At Rhyl Police Court, on January 4, Privates R. Tyre and M. Rontoul, C.A.M.C., were charged with selling and supplying morphine to a soldier on December 27, 1918, and Corporal J. A. Jensen was charged with aiding and abetting. The evidence showed that fifty-five tubes of $\frac{1}{4}$ -grain hypodermic tablets of morphine and "some tubes of cocaine" had been missed from the military hospital at Kinmel, and that drug-taking had become very prevalent at the camp in which the accused were stationed. A witness stated that he paid Tyre 8s. for a tube from the camp medical stores. Tyre alleged that he had purchased some in Liverpool. Tyre and Jensen were each sentenced to three months' hard labour, and Rontoul to one month's hard labour.—At Bow Street Police Court, London, on January 4, Paola Vansittart Stewart was charged on remand with unlawfully procuring on various dates quantities of cocaine from the Civil Service Supply Association, Ltd., Bedford Street, W.C. (*C. & D.*, January 4, p. 35). In order that the case might be dealt with summarily the amount was confined to 660 grains out of a total of 1,350 grains originally mentioned in the charge. It was stated for the prosecution that all the prescriptions were written in the proper medical and scientific form, and no adverse comment could be made upon the Civil Service Stores for having supplied the drugs upon those prescriptions, which would have deceived anyone. Recently, however, Mr. Edwards, the manager of the department concerned, having noticed in the papers certain disclosures as to the traffic in cocaine, made an examination of his prescription-book, and finding that large quantities had been supplied to defendant, gave instructions that if she applied for any more reference should be made to the doctor. Accordingly, when a letter was received from the defendant on December 19 asking for 60 grains to be sent to her by registered post, Dr. Maughan was communicated with, the police were informed, and defendant was eventually arrested. In passing sentence of six months' imprisonment in the second division, the Magistrate said that the prosecution had adopted a very indulgent course towards the woman, who, if she had been proceeded against for forgery, would have been liable to very heavy punishment. It was difficult to know what she had done with such a large quantity of cocaine. In the absence of evidence of trafficking, he would assume nothing against her in that respect.—At the Thames Police Court, London, on January 6, the case was concluded in which Marcus Woolf Cohen, medical practitioner, Leah Myers, dispenser, and Jack Bell, hairdresser, were charged with being concerned in "doping" a Russian subject with a view of rendering him unfit for the Army (*C. & D.*, January 4, p. 35). Cohen and Bell were found guilty. Cohen was sentenced to six months' imprisonment, and ordered to pay 100/- fine and 20/- costs, and in default of payment another fifty-one days' imprisonment. Bell was sentenced to five months' hard labour, and fined 30/- and 5/- costs, or sixty-one days' further imprisonment in default. Myers was discharged. Cohen subsequently gave notice of appeal.—At Marlborough Street Police Court, London, on January 7, William Henry Gordon, analytical chemist, was fined 100/-, with 21/- costs (or in default three months' imprisonment), for an offence under the Venereal Disease Act, 1917 (*C. & D.*, January 4, p. 35). After the conviction was obtained, it was stated for the prosecution that Gordon was formerly a dispenser at the French Hospital, and had been dismissed.—At the Rotherham West Riding Court, recently, a fine of 15/- was imposed on Mr. Mark D. Ellisson, chemist and druggist, Kilnhurst, for failing to display a price-list of lamp-oil.—At Birmingham Police Court, recently, six weeks' imprisonment was imposed on a man who had stolen waste-paper, etc., the property of his employers, Alfred Bird & Sons, Ltd., manufacturing chemists.—At Wrexham, on January 7, Mr. E. Stuart Clark, carrying on business with three partners, at Llay Hall Colliery, was charged with selling war material on May 14, 1918, without a permit, contrary to the Defence of the Realm Regulations. The British Cellulose and Chemical Manufacturing Co., Ltd., Waterloo Place, London, were charged with aiding and abetting. Each defendant was fined 16/-.

ENEMY PATENTS.—Licences have been granted to Morton Sundour Fabrics, Ltd., to use seventeen patents for dyes belonging to enemy aliens. The same company has also received licences from the Custodian of Enemy Property to use thirteen dye patents belonging to alien enemies.

WATERGLASS AS A VARNISH.—It is suggested in a German technical paper that waterglass may be used to cover walls if they are not old or have not been painted often before; the material may, however, not be considered as a complete substitute for oil-varnish, and is particularly unsuitable for use on wood or metals.

Irish News.

Brevities.

The "London Gazette" announces the retirement from the Army of Lieutenant H. M. Lancashire, of the Royal Irish Rifles. Lieutenant Lancashire, who retires from ill-health caused by wounds, is a son of Mr. H. M. Lancashire, J.P., Ph.C., Ballymena, and has latterly been on the recruiting staff in co. Antrim.

At Lurgan Board of Guardians on January 3, a letter was received from Dr. James L. Rowlett, dispensary medical officer, Portadown, to the effect that he had scarcely any medicine in the dispensary for the use of his patients. The Clerk said he was in communication on the previous day by telephone with the contractors in Belfast, and the latter informed him that the supply of medicines had been sent on to Portadown—all but a few articles, and that these would be forwarded at once.

Scottish News.

Edinburgh.

Lyle & Co., manufacturing chemists, Berwick-on-Tweed, have removed to 6 North West Circus Place, Edinburgh.

Last week one or two chemists in a usually busy neighbourhood decided to follow the example of the wholesale houses and enjoy an additional half-holiday. Fate, however, in the form of a shoal of prescriptions, compelled them to stick to business until the customary hour.

Brevities.

"New Year" was followed by the usual demand for pick-me-ups and aperients.

The new panel list for Fifeshire contains the names of 90 chemists and 108 doctors.

A chemist's four-year-old daughter told her mother that the lady next door had received a baby after having a "toilet sleep."

The demand for perfumes, etc., during the Christmas season was somewhat disappointing. Many fine displays deserved a better fate.

An appeal is being made for support for the Scottish Station for Research in Plant-breeding, an institution designed to benefit agriculture.

The New Year has not yet brought supplies of infants' foods and many other things. "Not so many complimentary greetings" is a chemist's pious hope, "and a great deal more to sell."

An Exhibition of Arts and Crafts was held on January 1 and 2 (in aid of the Y.M.C.A.) at Leslie, Fife. Mr. Alexander Spence, chemist and druggist, had on exhibition a collection of over seventy specimens of plants, seeds, gums, etc., illustrating the botany of the Old and New Testaments, and also a collection of synthetic drugs and chemicals, including flavouring agents, perfumes, dyes, and synthetic remedies.

In the West of Scotland the demand for ginger-wine essence during the festive season has, contrary to expectation, been large beyond precedent—showing that Scottish folk must have some wherewithal to regale their friends when the "auld kirk" is difficult to procure. One chemist reports having sold to a grocer sufficient essence to make 12 dozen reputed quarts of ginger wine. Cordials and such beverages, where obtainable, were sold at from 2s. 6d. to 3s. 6d. a bottle, as against the old price of 9d. to 1s.

A circular letter has been issued by the Chief Constable of Dundee beginning as follows:

It has come to the notice of the local authority that advice and treatment have been given by unqualified persons in cases of venereal disease. It is therefore desired that chemists and others should take every means to assist in carrying out Section 1 of the Act.

After setting forth the provisions of the first clause of the Venereal Disease Act, the letter concludes: "No further warning will be given."

"Somebody told me recently," writes a correspondent, "that Woodrow Wilson's double is a chemist in a Scottish town. My private gallery, so to speak, is more extensive than that. I have been in the service of Charles II. and Bailie Nicol Jarvie, and got along with both famously. James V., when he ran short of anything urgently required, was wont to send me along to Mr. John-Knox's pharmacy. I sold Mr. Asquith a box of vaseline on Christmas Eve, and Mr. Lloyd George is a frequent user (on the nod) of our telephone. Rob Roy, who looks himself to perfection, is a secret disappointment, in spite of his stalwart frame."

Poisoning Cases.

ANALYTICAL and medical evidence was given at the resumed inquest, held at Westminster on January 2, on the body of Miss "Billie Carleton," who was found dead in bed (C. & D., 1918, p. 1011). Mr. P. A. E. Richards, public analyst, stated that he found no evidence of poisoning in the intestines, stomach, or other organs, but in the nasal swabs taken from the body there was evidence of cocaine. He also discovered elsewhere the presence of an alkaloid. In all probability it was cocaine. Cocaine was rapidly absorbed, and the fact that he did not find it in the stomach did not necessarily mean that it had not been there. Dr. R. C. Jewesbury, pathologist at Charing Cross Hospital, said that the mode of death was premature asphyxia. Probably death was due to some narcotic poison. The small box which Miss Carleton carried was handed to him, and he found that it contained a white powder—9½ grains in quantity—and that powder gave the chemical and physiological tests of cocaine. In his opinion death was due to cocaine poisoning. He added, in answer to a question, that the smallest fatal hypodermic dose on record is ½ grain. Dr. Thomas Stewart, Charles Street, Knightsbridge, S.W., told of having treated Miss Carleton for the effects of drug-taking, and said he had taken cocaine away from her. He had given her ½ grain of morphine in a hypodermic injection about six times in six months to relieve pain caused by teeth. The Coroner: Is it wise to give morphine hypodermic injections to a young woman of twenty-two?—It depends. She had a certain condition of the kidneys which was very troublesome. All the more reason for not giving morphine?—Well, she had to get on with her work, and it was only after great pain or the extraction of wisdom teeth. If everyone took morphine for toothache we should have a land filled with morphine takers?—Yes, but there was kidney trouble. You have also given her trional?—Yes, for the insomnia that cocaine produced—20 grains in each cachet. The inquest was further adjourned to January 16.—An inquest was held at Wandsworth, London, on January 3, on the body of Mr. Ivor William Joynt, a surgeon at the 3rd London General Hospital. There was evidence that he had injected a solution into his thigh, and in a pathetic letter to the commanding officer of the hospital he wrote to the effect that he was taking an overdose of morphine. Further evidence showed that the membranes of the brain were thickened. An "Unsound mind" verdict was recorded.—Two poisonings by salt of lemon are reported—one from Liverpool, where an open verdict was returned in the case of Bessie Gibbs; and the other from Windsor, where Alice Stanley committed suicide while of unsound mind.—Indications of veronal poisoning were mentioned at a Cambridge inquest begun on January 6 on the body of Dr. Marseille, senior modern-languages master at the Leys School, a bottle labelled "Veronal" and "Poison" having been found in the bedroom where he lay dead. Mr. Herbert Norrish, chemist and druggist, assistant with Boots, Ltd., said he had known Dr. Marseille as a customer for a considerable number of years. Over twelve months ago he sold him a bottle of veronal. He remembered telling Dr. Marseille only to take half a tabloid at a time. He was sure Dr. Marseille knew the effect of taking too much of it. A medical witness having stated that the result of the post-mortem examination was negative, the inquest was adjourned.—In Marylebone, London, on January 8, further evidence was given at the resumed inquest on the body of Mary E. M. Boshell, a nurse. It had been previously stated that a prescription for four cachets of veronal had been surreptitiously altered to one for fifteen cachets (C. & D., 1918, p. 1011). Mr. John Webster, assistant analyst at the Home Office, said he detected ½ grain of veronal in the stomach. It was probable that the girl took a large dose, possibly up to 50 grains or more. The Coroner's officer said he had found a quantity of drugs. A man who was unable to be present owing to illness had made a statement that Boshell had said that his sister altered the prescription before he took it to the chemist, that the chemist said, "It is a big prescription," and Boshell's reply was, "That's all right. I am the doctor who ordered it." He was given a phial of morphine. Among the correspondence was a letter in French, which stated, "I have sent you a registered letter with veronal and 'I.N.' (meaning morphine); also a letter in which I tell you to take only one in the evening." An open verdict was returned.

DOCTOR'S DISPENSING.—The following advertisement appeared recently in a London newspaper: "Boy wanted; just left school; to assist in doctor's house; experience unnecessary; would be taught dispensing; splendid start for willing boy; hours 8 till 6."

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

MANN & CANDISH, LTD. (P.C.).—Capital 5,000*l.* Objects: To take over the business of a chemist carried on at 87 Stoke Newington Road, N., by Elkan Wechler. R.O., 63 Queen Victoria Street, London, E.C. 4.

DR. HAIR'S ASTHMA CURE, LTD. (P.C.).—Capital 5,000*l.* Objects: To take over the business of B. W. Hair & Son, dealing with Dr. Hair's Asthma and Bronchitis Cure, and other proprietary articles, etc. The first directors are T. H. Stephens, manufacturing chemist, and Miss M. L. Stephens. R.O., 104 High Holborn, London, W.C.

B. W. HAIR & SON, LTD. (P.C.).—Capital 10,000*l.* Objects: To take over the branch of the business relating to manufacturing chemists and wholesale and export drugists carried on as "B. W. Hair & Son"; also to carry on the business of distillers of essential oils, fruit and soluble essences and other goods, forwarding agents, shippers, etc. The first directors are T. H. Stephens, manufacturing chemist, and Miss M. L. Stephens. R.O., 104 High Holborn, London, W.C.

BOOTS CASH CHEMISTS (EASTERN), LTD.—The report for the year ended March 31 last states that the strength of the company has continued to develop until it has reached a point where the carry-over alone represents a full year's dividend on all shares, including 12½ per cent. on the ordinary. This is after taking into account the heavy taxation of the period. Net profit was 30,622*l.*, against 29,283*l.*; 19,277*l.* was brought forward, making 49,899*l.* The directors recommend a dividend on the ordinary shares of 12½ per cent. per annum (already paid), to add to freehold reserve 4,500*l.*, carry to contingency reserve 2,000*l.* (making 22,190*l.*), and after paying management expenses, 1,250*l.*, to carry forward 21,049*l.*

LEVINSTEIN, LTD.—The annual meeting was held at Manchester on December 23, Lord Armaghdale presiding, and in the course of his speech referred to the amalgamation between British Dyes, Ltd., and their own company as an accomplished fact. Reviewing the work of the past twelve months, his Lordship said that owing to the restrictions imposed by the Government the Ellesmere Port factory was compelled to go on short time for over two months, thereby creating for a period a shortage of synthetic indigo in this country, from which it has not yet fully recovered. The factory for some time past, however, has been operating to its fullest extent, and now that the war is over the company is looking forward to large developments. Referring to the development of gas warfare, Lord Armaghdale said that the company had taken an important share in its development, and in the opinion of the authorities their deliveries of gas had played an important part on the field of battle. Had the armistice come a few weeks later certain developments in the company's manufacture of gas would have had time to become effective in France. The enemy chose for surrender the moment when the Gas Warfare Department of the Allies was about to overwhelm him, although he had a long start in this particular method of frightfulness. He called special attention to this point because gas warfare had become most scientific before the war ended. This success in beating the German in this branch is significant to those who, like himself, believed that they could also surpass his very considerable achievements in the aniline-dye industry. The production of dyes in the year ended June 30, 1918, was seven and a half times the production of the former year. This increase represented their expansion only very inadequately. The expansion in the production of intermediate products is even more important. In 1914 they made 1,403,490 lb. of intermediate products. In 1918 the production of intermediate products was 15,169,122 lb., nearly eleven times the production of 1914. This figure comprised over 150 products. In 1914 most of the intermediate products used in the works were made in Germany. In 1918 the company made seven and a half times as much dyestuff, and made it from intermediates manufactured entirely by themselves. This is not all. The company did not buy all the nitric acid and oleum required for the manufacture of intermediate products, and they had to make these acids themselves. In 1918 they made 22,619,363 lb. of these products, of which the company made none in 1914. In the case of the new company, the Board of Trade has very properly decided that the dividend shall be limited to 3 per cent., and has taken power to interfere should in their opinion prices be too high, or should the distribution of its products be unfair. The company is unable to present the accounts owing to the delay in coming to a settlement with the Inland Revenue.

Trade Notes.

SWISS AGENCY.—Conrad Ruch, Schaffhouse, Switzerland, invites British agencies for chemicals, galenicals, pharmaceutical products, proprietary articles, photographic goods, and toilet brushes.

SCREW CAPS AND METAL BOXES.—Napper & Davenport, 7-11 St. George's Place, Birmingham, are now open to supply customers' requirements in metal screw caps, tube clips, and small metal boxes. The firm invite inquiries.

HEALO DISPLAY-CASE.—Maurice Smith & Co., Ltd., manufacturing chemists, Kidderminster, in their advertisement of Healo in this issue give a picture of the display-case and showcard which they are sending out with this speciality.

THE TELEPHONE NUMBER of Calder's Yeast Co., Ltd., Newcastle-on-Tyne, is "Central 2069," and not as given in the *C. & D. Diary*, 1919.—The telephone number of Evans, Gadd & Co., Ltd., Exeter, is City 4097, and not as given in the *C. & D. Diary*, 1919.

WAR REGULATIONS RELAXATION.—As a result of relaxation in several war regulations the Anglo-American Pharmaceutical Co., Ltd., Galen Works, 59 Dingwall Road, Croydon, announce in this issue that the company is now able to supply the proprietary articles which had been held up owing to the war.

TRADE PRINTING.—We have had an opportunity of looking through a collection of samples of trade printing produced by Thomas Waide & Sons, Kirkstall Road, Leeds. These consist of cartons, labels, soap-wrappers, and circulars, and exhibit a great variety in design. The samples are all of recent production, and when one considers the difficulties under which they have been made the future of the firm as chemists' printers is assured.

BRITISH PROPRIETARIES in U.S.A.—E. Fougera & Co., Inc., New York, announce in an advertisement in this issue that the Court of Appeals in New York has confirmed the ruling of the lower Court that manufacturers of proprietary medicines need not disclose the formula before being allowed to sell the article. This is in regard to the Ordinance which was promulgated in New York, and to which reference has been made in the *C. & D.* from time to time.

Business Changes.

THE EAST SOUTHSEA BRANCH of Cruse & Co., Ltd., chemists, Palmerston Road, has been closed.

MR. G. E. PASHLEY, chemist and druggist, has taken over the business at Dronfield hitherto carried on by Mr. C. H. Twelves, chemist and druggist.

MR. S. VAN MINDEN, trading as S. Van Minden & Co., has removed from 86 Leadenhall Street to India House, 84 Leadenhall Street, London, E.C. 3.

KIRKPATRICK, BARR & PATON, 4 Cullum Street, London, E.C. 3, announce that their senior partner, Mr. Alexr. G. Barr, retired from the firm from December 31, 1918.

TIMOTHY WHITE CO., LTD., have purchased corner premises at The Strand, East Southsea, and will open them as a pharmacy as soon as alterations are completed.

LANGLEY-SMITH & CO., oil and turpentine merchants, 14-20 St. Mary Axe, E.C., have taken into partnership Mr. C. J. Hutchinson and Mr. W. J. H. Ennis, who have been associated with the firm for many years.

MR. F. D. FINN, chemist and druggist, 193 Battersea Park Road, London, S.W. 11, has taken over the business of Mr. G. F. H. Bartlett, chemist and druggist, at 38 Battersea Park Road, as from December 18, 1918.

MR. A. E. FOREMAN, chemist and druggist, lately manager to Wilsons, Ltd., chemists, Harrogate, has taken over the pharmacy formerly conducted by Mr. Freshfield Reynolds, Ph.C., and recently by the late Mr. A. J. Spearing, at Barton Street, Gloucester.

MR. G. R. LAWRENCE, Ph.C., High Street, Rhyl, has taken his son, Mr. G. Rowland Lawrence, chemist and druggist, into partnership. The business, which has been in the hands of Mr. Lawrence, sen., for thirty-two years, will be continued as G. R. Lawrence & Son.

B. W. HAIR & SON, 104 High Holborn, London, W.C. 1, to keep pace with their development, have separated the two branches of their business, (1) manufacturing wholesale export chemists, etc., and (2) Dr. Hair's Asthma Cure and other preparations, forming two limited companies (see previous column). The change took place from January 1.

Birth.

KELLY.—At "Santa Barbara," Queenstown, on December 27, the wife of Hugh M. Kelly, Ph.C., of a son.

Marriages.

DAVIES—MORGAN.—At Bedwelly Parish Church, on December 26, by the Rev. J. Evans (Vicar of St. James's, Tredegar), John Clifford Davies, chemist and druggist (Fairchild Prizeman and Silver Medallist), to Mattie, only daughter of Mr. Morgan, James Street, Tredegar.

HARRISON—ELLIOTT.—At Fitzroy Avenue Church, Belfast, on January 2, by the Rev. Wm. Colquhoun, Dan T. Harrison, to Norah, second daughter of the late Mr. D. W. Elliott, Ph.C., 4 Shaftesbury Square.

Deaths.

DALGLEISH.—On January 7, Edith Jane, the beloved wife of Mr. Henry J. Dalgleish, 91 Walworth Road, London, S.E. 17, aged fifty-three.

GODBOLD.—At 11 Forest Drive, Manor Park, London, E., on January 3, Agnes, the dearly loved wife of Mr. Thomas Godbold (representing Price's Patent Candle Co., Ltd.), aged forty-nine.

GRESSWELL.—At 96 Oriel Road, Portsmouth, on January 1, Annie, widow of the late Arthur Gresswell, Ph.C.

MCCULLY.—At Londonderry, on January 4, of pneumonia, Mr. William McCully, Ph.C., a director of Thomas McCully & Co., Ltd., chemists, Victoria Road. Mr. McCully, who was held in high esteem in the North-West of Ireland, had been ill for about a fortnight. He leaves a widow and two children. The funeral took place at the City Cemetery, Londonderry, on January 7.

Died on Service.

CLARK.—At the County Hospital, Lincoln, on December 14, Sergeant William Sydney Clark, R.A.F., Ph.C., aged thirty-two.

GEMMELL.—Captain Alexander Gemmell, R.E., D.Sc., has died at Murte from the effects of poisonous gas. Captain Gemmell graduated Bachelor of Science at the age of nineteen, and in civil life was an analytical chemist. In 1917 he was appointed to the anti-gas department of the Royal Engineers in London. Here he conducted research work under the late Colonel Harrison, who, it will be remembered, died recently from a similar cause (*C. & D.*, 1918, p. 889).

NAPIER.—Private Douglas Napier, Northumberland Fusiliers, previously reported missing (*C. & D.*, 1917, p. 1053), is officially reported killed in action on October 26, 1917. Private Napier, who was the eldest son of Mr. Alexander Napier (representing Warrick Bros., Ltd.), Birch Grove, Rusholme, was prior to enlistment an assistant with Thompson & Capper, Ltd., chemists, Manchester.

NORRIS.—Sergeant Stanley Norris, R.A.M.C., chemist and druggist, died at Salonica of influenza and pneumonia, on December 21, 1918. Sergeant Norris, who was the second son of Mr. A. B. Norris, chemist and druggist, Branstone Road, Burton-on-Trent, served his apprenticeship at Bath. He passed the Qualifying examination in March 1915, and enlisted in the following September. After service in Egypt and in the Persian Gulf, he was appointed chief dispenser at a Salonica military hospital in 1917.

Personalities.

A CERTIFICATE OF NATURALISATION has been granted to L. Rondolin (Italian), Caversham, Throwley Road, Sutton, chemist.

MR. R. D. HUGHES, chemist and druggist, High Street, Denbigh, has been elected a member of the Denbigh Food Control Committee.

DR. E. K. MUSPRATT has retired from active participation in the United Alkali Co., Ltd., and has accepted the position of Hon. President.

MR. HARRY S. WAITE, who served his apprenticeship in pharmacy at Rotherham with Boots, Ltd., and has since been on active service abroad, has been gazetted second-lieutenant.

MRS. ROWLANDS, wife of Mr. L. B. Rowlands, chemist and druggist, Mayor of Wrexham, received the decorations of the Order of the British Empire at the hands of the King on January 2.

CAPTAIN T. W. THEAKSTON, R.E., Ph.C., was "mentioned" in Sir D. Haig's list which was issued on December 23. Captain Theakston is managing director of Pritchard & Constance, Ltd., 57 Haymarket, London, S.W. 1.

MR. E. P. SIMMONS, London chemical buyer for Booker Bros., McConnell & Co., Ltd., 21 Mincing Lane, London, E.C., is sailing on January 17 from Liverpool to the company's headquarters at Georgetown, British Guiana.

WOR. BRO. C. E. ISON, chemist and druggist, was installed W.M. of the Atherton Lodge, No. 1333, on January 2. Among the visitors were Wor. Bro. G. W. Kenney, pharmacist, Gillingham (Kent), and Bro. C. B. Baker, Ph.C., Nuneaton.

MR. THOMAS BREWIS, chemist and druggist, the venerable President of the Portsmouth Pharmacists' Association, has decided to contest the seat on the Borough Council for the Kingston Ward at the coming by-election. Mr. Brewis has seen much public service. He is a member and past-Chairman of Guardians, and was for eighteen years on the Council he now seeks to re-enter.

CHARLES LANE & SONS, 7 and 8 Idol Lane, London, E.C. 3, announce that Mr. Ferguson, formerly manager of their chemical department, has resigned at his own request. Their senior partner, Mr. F. O. Lane, has, however, returned to business, and, although still undergoing hospital treatment for a wound in the arm, will attend the office daily and resume control immediately.

CORPORAL CECIL L. CHEETHAM has been awarded the Military Medal. Corporal Cheetham, who was apprenticed to his father, the late Mr. G. Cheetham, chemist and druggist, Louth, was senior assistant to Mr. Hedley Masson, Forest Hill, London, S.E., when war broke out, and was studying for the Qualifying examination. He gave up his appointment almost immediately and enlisted.

WE congratulate Mr. A. R. Melhuish on his co-option to the Council of the Pharmaceutical Society. It will be remembered that Mr. Melhuish was a candidate at the Council election last May, but failed to receive sufficient support from the electorate. We published a biography of the new councillor in the *C. & D.*, April 27, 1918, p. 46.

PROFESSOR W. J. POPP, President of the Chemical Society, has been made a Knight Commander of the Order of the British Empire. Among the other awards are the following who have received the "C.B.E.": Mr. G. C. Clayton, director of the United Alkali Co., Ltd.; Mr. J. C. M. Garnett, Municipal College of Technology, Manchester; Dr. Peter C. Mitchell, F.R.S. Mr. F. Holt, chemist to the Castner-Kellner Alkali Co., Ltd., and Dr. W. E. S. Turner, of the glass department of the Sheffield University, receiving the "O.B.E." Two or three names are mentioned in connection with the collection of sphagnum moss.

More Tales of Oenophus.

X.—Turnyng Over Newe Leves.

Eche Yule-Tyde onne maketh Grave Resolutiones concerning Standardes of Conducte inne ye Comynge Yere. Butte alack-a-daye, inne Moste Cases, Humane Frailtye prevaleith.

Moreover, there be Exceptions; "ye wyche," saith ye Wyse Menne, "proue ye Roule."

Thus onne hath ye Instyncte that Oure Roulers inne Farmazie, being Menne of Exceptionale Merritt, wille holde bye That Wyche Theye Have Resolved.

Soe onne picturthe a Reconstructede Worlde inne Anno-Domino Nyneeteen-Nyneeteene, wherein Gouvernementes cease from Troublynge soe that Chymistes maye take A Reste.

Warres, withynne and wythoutte, wille be No More. Skynnarijus wille feede from yo Lovyngre Hande of Edmonde Le Blanc and Hynnaeus wille laye hys Hedde in ye Lappe of ye Decone of Northwyche.

Ye Secretre Dyplomacieys of ye Bolde, Badde Paste are Crusht bye ye Powerfull Djinn and Alle Thyngeys What-somever discuss frelie inne Counsell Overte.

Whereby Menne shalle knowe ye Innermoste Myndes of Oure Roulers and ye Cavillere wille be Outte of a Jobbe.

Verily, a Grete Thoughte, my Masters, and Moste Com-fertyngre to ye Soule.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

Report on the December Analytical Exercise.

The powder distributed to students on December 10 contained five parts by weight of ammonium aluminium sulphate (ammonium alum), four parts of manganous sulphate, and one part of zinc sulphate. The calculated composition of such a mixture is:

Al	...	...	...	...	...	3.0
Mn	...	...	...	...	...	9.9
Zn	...	...	...	...	...	2.3
NH ₄	...	...	...	...	...	2.0
SO ₄	...	...	...	...	...	41.7
H ₂ O	...	...	...	...	...	41.1
						100.0

The mixture was practically free from impurities, only the faintest indications of the presence of traces of iron and chlorine being recognisable.

Samples of the powder were distributed to thirty-two students, and seventeen reports were sent in for examination. The sulphuric acid radical was detected by every competitor. The failures in the detection of the metallic radicals were: Aluminium, 6; manganese, 4; zinc, 8; ammonium, 4.

In a mixture in which sulphuric acid radical and water of crystallisation together make up nearly 83 per cent. of the whole, while considerably more than one-half of the remainder consists of manganese, there is obviously not much room for three other metallic radicals in anything but small proportion, and the fact that aluminium, zinc, and ammonium were thus present only in relatively small quantity is no doubt largely responsible for the rather heavy failures in the detection of these. As regards ammonium and aluminium, the tests chiefly relied upon, while in themselves moderately delicate, are not always applied in a manner calculated to make the most of such sensitivity as they possess. How to make the test for ammonium a really delicate one has been stated again and again in this column, and the delicate alizarin test for aluminium was described in January 1916 (*C. & D.*, Vol. 88, index folio 33).

Zinc is often overlooked because the precipitation of zinc sulphide from dilute solutions by means of hydrogen sulphide does not always take place at once to any considerable extent, but is a gradual process.

Manganese in the present analysis was commonly precipitated partly along with the aluminium (the result of gradual oxidation) and partly with the zinc; and in most of the cases where it was not detected the simple fusion test for the production of manganate was not applied to either precipitate. In the ordinary course of analysis, manganese is never completely separated in the ammonium hydrosulphide precipitate and the traces which escape precipitation behave towards sodium phosphate like magnesium. This fact may explain the supposed trace of magnesium reported by several students.

It is necessary to distinguish the darkening which takes place on heating various inorganic substances (with formation of brown or black oxides, etc.) from the charring of organic compounds. The latter is due to decomposition, which is generally accompanied by a more or less marked and characteristic odour, and this was not in evidence on this occasion.

Several students apparently concluded from the incandescence of the powder when heated on a platinum wire that it contained borax, and took special pains to test for the presence of a borate. One or two even reported that a borate was present, and adduced such seeming evidence as should suffice to carry conviction. It is desirable in all cases to beware of permitting preconceived ideas either to warp the judgment or, worse still, to give play to the imagination.

PRIZES.

The First Prize for the best analysis has been awarded to E. A. ONYON, The Vinery, Eye, Suffolk.

The Second Prize has been awarded to

J. F. Dalziel, c/o Dunbar, 7 Rankeillor Street, Edinburgh.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

E. A. Onyon (1st Prize)	94	Physics	...	...	...	67
J. F. Dalziel (2nd Prize)	93	Ardfern	...	...	...	62
Saffron	...	Gingerol	...	...	...	60
Lawton	...	Tyrone	...	...	...	55
Amethyst	...	H. R. H.	...	...	...	53
Jayjay	...	Metol	...	...	...	53
Heroin	...	C. R. Todd	...	...	...	52
Mist	...	Serum	...	...	...	38
Melonia	...	...	...	...	...	38

TO CORRESPONDENTS.

J. F. DALZIEL.—The precipitate that you obtained when testing for magnesium was due to traces of manganese. See the general remarks.

SAFFRON.—It is not sufficient merely to boil out hydrogen sulphide before testing for metals of the iron group: boiling with nitric acid should also be carried out to ensure that iron, if present, is oxidised to the ferric state.

LAWTON.—A white curdy precipitate formed when testing for chloride with silver nitrate must have been due to impurity in the sodium bicarbonate employed in preparing the solution, since a solution of the powder in dilute nitric acid yielded only a faint cloudiness with silver nitrate.

AMETHYST.—You could scarcely have failed to detect ammonium if you had applied the test for it in the manner repeatedly described in detail in this column.

JAYJAY.—Note that a chromate could not be present in a hydrochloric acid solution which had been saturated with hydrogen sulphide, and that the subsequent boiling of such a solution with nitric acid has nothing to do with chromium. We were not able to confirm the trace of a phosphate which you report. The calcium was probably introduced in tap water.

HEROIN.—When the powder was heated, water vapour and ammonia, succeeded by sulphur dioxide and oxygen, were evolved. You are to be congratulated if you recognised the effect of the oxygen on combustion. You write "deflagrated" where you probably mean "decrepitated." The powder did not deflagrate on heating.

MELONIA.—Your report leaves us in doubt as to whether your procedure in separating the aluminium and zinc from the manganese was correct or not, since—apparently—you obtained a precipitate containing manganese and a trace of iron on adding solid ammonium chloride to a solution which was presumably alkaline and from which, if alkaline, manganese and iron would have already been precipitated. You cannot be too explicit in giving details regarding the solutions to which reagents are added. We cannot account for the seemingly abundant chloride which you report.

PHYSICS.—Somewhat delicate treatment was needed to prove the presence of aluminium by means of the method you employed. The alizarin test gave a well-marked reaction. You seem to have omitted to test for zinc.

TYRONE.—The precipitate you obtained with silver nitrate in testing for acid radicals was most probably silver carbonate, due to the carbonate employed in preparing the solution not having been completely neutralised with nitric acid. We did not succeed in confirming the presence of a nitrate.

H. R. H.—The darkening of the powder when strongly heated was due to the decomposition of the manganous sulphate, and its resemblance to charring was somewhat remote. The precipitate which you took for calcium citrate consisted of calcium sulphate.

METOL.—You report a white precipitate in the iron group, but of the metals of that group only iron was detected. You must be aware, however, that ferric hydroxide is not colourless. Then the ammonium sulphide precipitate must have been coloured—not white.

C. R. TODD.—The evolution of sulphur dioxide when the powder was strongly heated was due to the decomposition of the sulphates. The supposed odour of sulphur dioxide noticed when it was heated with dilute hydrochloric acid was simply due to the boiling off of some hydrochloric acid.

SERUM.—You concluded from rather slender evidence that a chloride was present. Had you tested for a chloride (product of the decomposition of a chlorate) in the residue from heating the powder in a dry test-tube, you would have obtained good evidence that a chloride was not present.

Pharmaceutical Society of Great Britain.

Council-meeting.

A MEETING of the Council was held on January 8 at 16 Bloomsbury Square, London, W.C. The chair was occupied by Mr. W. L. Currie, the President. All the members were present with the exception of Miss Buchanan, who had sent a letter of apology for absence.

The minutes of the meeting held on December 15 were read and confirmed.

NEW YEAR GREETINGS.

The PRESIDENT, in opening the proceedings, wished the members a happy and prosperous new year. He remarked that the opening of another year brought with it the prospect of a better condition of things for the country than had prevailed during the past four years.

DEATHS.

The PRESIDENT said he had to make reference to the loss of pharmacy had sustained by the death of Mr. W. L. Howie, news of which had reached them so suddenly. Tribute to the memory of that gentleman had been paid in the Press, and it was difficult for him to add anything to what had already been published. They could not but regret that Mr. Howie had for such a short time been spared to enjoy the reward of his long and arduous labours. Those who knew Mr. Howie could look back with pleasant memory of their association with him, and with satisfaction with all he had done for pharmacy. He knew everybody and everything connected with pharmacy. The President then moved the following resolution:

That this Council learns with regret the death of William L. Howie, Ph.C., F.R.S.E., one of the auditors of the Society, and a most highly esteemed member of the pharmaceutical body. The Council desires to record its appreciation of his services to the Society and to the calling of pharmacy generally, recalling with gratitude the many instances in which his varied attainments, his ripe experience, and his convincing personal influence have been placed at the disposition of the members of the Society and its officers.

Mr. WHITE seconded, and the resolution was carried in silence, the members upstanding.

The PRESIDENT remarked that it was also with profound regret that he had to make allusion to the death of Mr. Richard FitzHugh, of Nottingham, whom he might almost designate the father of pharmacy, and who had passed away at the ripe age of eighty-five. Mr. FitzHugh was well known all over the country, and personally he (the President) could recall with pleasure and pride many conversations he had with him at the Conference at Nottingham when Mr. FitzHugh was Deputy-Mayor, twenty-six years ago. The deceased gentleman was "Perpetual President" of the Nottingham Association. With the passing of these old members the Society is losing valuable links with the past—a fact which they all deplored. Another death to which he wished to refer was that of Mr. J. Phillips, Wigan, the father of Captain Phillips, who was well known to members of the Council, and who had rendered such valuable service to the Society and to the country. Mr. Phillips was another of the old staggers who linked the Society so closely with the past. He was a student of the Society's school as far back as 1863, and throughout his business life took a lively interest in pharmaceutical affairs. He was a bright and shining light of the British Pharmaceutical Conference, and was always the life and soul of those convivial gatherings which followed the meetings. In referring to the loss which the Society had sustained by the death of these members, he was sure it was the wish of the Council that their sympathy and condolence should be communicated to their relatives.

Mr. ROWSELL also referred to the death of Mr. Joseph J. Ogilvie Evans, Teignmouth, to whom he was apprenticed, and who had passed away at the age of seventy-three, thus breaking another of the precious links to which the President had referred. Mr. Evans was a well-known man in the West of England, and his death was deeply deplored by all pharmacists in that part of the country.

It was agreed that condolences should be forwarded to the relatives.

MR. A. R. MELHUIS CO-OPTED.

The first business before the meeting was to fill the vacancy on the Council caused by the resignation of Mr. J. Harrington.

The PRESIDENT said that in this connection he had received a letter from Mr. Harrington thanking the members for the kind letter sent to him from the last meeting. Mr.

Harrington hoped to have the pleasure of seeing them all again at no very distant date. Proceeding, the President said that the question as to the best means of filling the vacancy had been carefully considered, and the conclusion had been come to that as Mr. Harrington was a West End of London man it would be well to co-opt in his place one from the West End of London. He had, therefore, pleasure in proposing that Mr. A. R. Melhuish be co-opted a member of the Council in place of Mr. Harrington, resigned. Mr. Melhuish had taken an active part in pharmaceutical matters in London. He was a good business man, and one whose ability in many respects would be appreciated and valued at the table.

Mr. WHITE, in seconding, said he was convinced he would make a valuable and capable member of the Council.

The nomination was unanimously agreed to.

Mr. PARRY asked if Mr. Melhuish would be appointed to the same Committees as those on which Mr. Harrington had served.

The PRESIDENT replied that presumably that would be done.

THE VACANT AUDITORSHIP.

The filling of the vacancy in the Auditors caused by the death of Mr. Howie next came up for consideration.

The PRESIDENT suggested that in view of the fact that Mr. Howie's death had occurred so recently it might be well to defer the appointment to the vacancy for a month.

This was agreed to.

ELECTIONS AND RESTORATIONS.

It was resolved that 118 persons whose names were given should be admitted Student Associates, and that 58 persons who had tendered their subscriptions should be elected members of the Society. One person was restored to the Register of Chemists and Druggists, and 21 were restored to the Society on payment of the current year's subscription.

WAR OFFICE EDUCATION CERTIFICATE.

The SECRETARY intimated that that morning he had received a letter from the War Office dated January 7 relative to certificates in lieu of the Preliminary examination. He said that in the ordinary way it would have gone to the Committee, but he thought he ought to read it in order that the Council might decide as to whether it was necessary to take any action at that meeting or submit the letter to the Committee for consideration and report. The letter informed the Council that the Universities of the United Kingdom had been approached with the view of their accepting in lieu of their Matriculation examination a special examination conducted under a system which the War Office proposed for soldiers about to resume their studies for various professions, and whether certificates granted to soldiers who had satisfactorily passed the advanced examinations in group subjects explained in enclosures sent with the letter would be accepted. The letter added that many of the Universities, including those of Manchester, Liverpool, Leeds, Sheffield, Bristol, Durham, and Wales, had already indicated their willingness to accept these certificates for the purpose in question, and it was hoped that similar replies would shortly be received from the other Universities. The letter asked whether the Council would also be prepared to accept the Special Army Certificate under the conditions mentioned as qualifying for admission to the Society's examinations. The sympathetic consideration of this proposal by the Society's governing body would materially assist the success of the scheme, and place an additional incentive before soldier-students who undertook educational training during the period of demobilisation. With the letter were enclosed, for the information of the Council, copies of two pamphlets explaining some details of the organisation and aims of the Army education scheme. The Secretary remarked that in ordinary circumstances the Council would like its School Committee to go into the whole scheme and make some recommendation of their own, but this would mean a month's delay. It took the War Office a long time to make up its mind upon anything, but when once it had made up its mind it expected every other body to make up its mind as to the acceptance or rejection of its proposals within twenty-four hours. What he feared was that if the Council delayed a month in informing the War Office as to whether or not they would accept its proposals, the delay would be serious to men at the Front who intended to pursue their studies in pharmacy. It was stated in the scheme of the War Office that a man would have to pass in three subjects—English, arithmetic, elementary mathematics, physics, history, and geography, and also one of the other subjects which were considered optional. It was for the Council to consider whether they would depute someone to make inquiries from the Department as to what they exactly meant by mathematics under the scheme.

Mr. HINES asked whether, in view of the fact that the Council already recognise the Matriculation certificate, they would be in a position under the War Office scheme of being bound to accept the certificate issued under it? (Cries of "No.")

The SECRETARY pointed out that the Council do not accept the Matriculation or any examination certificate at the present time which did not include their compulsory subjects—algebra and geometry—and it was here where the real difficulty lay. Did the scheme of the War Office include these subjects in mathematics?

Mr. WHITE suggested that there was little difficulty in the way of the accepting the proposal of the War Office. The Council could accept the proposed certificate under the scheme of the War Office on the same conditions as the Universities. He moved accordingly.

Mr. CUFF seconded, and the proposal was unanimously agreed to.

FINANCE COMMITTEE.

The financial statement submitted by the Finance Committee showed that the receipts of the General Fund since the last meeting amounted to 2,955*l.* 7*s.* 1*d.*, and included the following items: Penalties and costs, 5*l.* 2*s.* 9*d.*; "Journal" and publications, 8*l.* 8*s.* 2*d.*; registration-fees, 17*l.* 10*s.*; restoration-fees, 2*l.* 2*s.*; certificates of qualification, 2*l.* 4*s.*; rent, 150*s.*; school-fees, 27*l.*; subscriptions, 42*l.*; examination-fees, 354*l.* 19*s.*; dividends, 86*l.* 19*s.* 1*d.*; sundry sales, etc., 46*l.* 2*s.* 1*d.*; and loan, 2,000*l.* The balance to debit at the last Committee-meeting was 328*l.* 0*s.* 4*d.*, and the payments ordered amounted to 2,238*l.* 11*s.* 5*d.*, which amounts deducted from the receipts left a balance of 388*l.* 15*s.* 4*d.* At the meeting of the Committee on January 7, payments amounting to 1,681*l.* 10*s.* 2*d.* were authorised. The other statements in the report showed a balance of 440*l.* 12*s.* 7*d.* to the credit of the Benevolent Fund (Current Account), 40*l.* 13*s.* 6*d.* to that of the Benevolent Fund (Donation Account), a balance of 5,747*l.* 18*s.* 10*d.* to the credit of the War Auxiliary Benevolent Fund, and of 1*l.* 4*s.* 5*d.* to that of the Orphan Fund.

The report of the Committee recommended that the President be authorised to send, on behalf of the Society, such form of lien as the bank would require in respect of security for advances which might be made to the Society, and that the Corporation seal of the Society be affixed to any power of attorney required in connection with the loan of 2,000*l.* from the bank.

On the motion of the TREASURER, seconded by Mr. WHITE, these recommendations were agreed to.

Mr. CUFF asked what were the principal items included in the item "House expenses, 238*l.*," recommended for payment.

The SECRETARY replied that the principal item was Imperial taxes for the Society's houses, amounting to 216*l.*

The TREASURER explained that one of the recommendations of the Committee was that members of the Council who were detained in London on the Society's business should be allowed a guinea a day subsistence allowance. He said that the President and certain members had on occasions to stay in town in order to transact the Society's business, and the Committee felt that they should not be allowed to do so at their own expense.

Mr. PARRY inquired if the proposal was that the amount suggested was intended to cover the hotel expenses of members who might be detained in town on the Society's business.

The SECRETARY explained that the recommendation simply was that where the Council business required that any member of the Council should be required to remain in London for more than the two days now necessary for the transaction of the ordinary Council business, he should receive the guinea for expense.

Some discussion took place in Committee relative to this recommendation, and ultimately, on the suggestion of the TREASURER, it was agreed that the subject should be referred back to the Committee for further consideration.

Mr. HINES, as a member of the Committee, pointed out that the Council had to face continually increasing costs without adequate means of meeting these costs out of ordinary income. He very much regretted that every suggestion that had come before the Council from the Committee for checking the increasing expenditure had been consistently turned down. He thought the Council should give more help than they did in the direction of restricting expenditure, particularly as they would during the coming year have to take many disturbing facts into their serious consideration.

Mr. WHITE replied that, so far as he was concerned, he was more optimistic than ever. During the past four years the income had certainly not been sufficient to meet the expenditure, but the experience of the Society in this respect

had not been peculiarly its own; it was general to other organisations. The conditions had been forced upon them. But relief would come in due course, particularly when the examination-fees came in. There was nothing in the present aspect of the Society's financial condition that need cause the members any sleepless nights.

The TREASURER mentioned that the Council had always to remember that they had not only to pay their way in the future, but to repay the large sums of money which had been borrowed during the past four years.

The report was then received and adopted.

SUPERINTENDENTS OF WRITTEN EXAMINATIONS.

On the motion of MR. KEALL, seconded by MR. DEAKIN, the following were appointed superintendents and deputy-superintendents of written examinations for the coming year:

London: Superintendent, Edmund White; Deputy-Superintendent, Harry Moon.

Edinburgh: Superintendent, James Nesbet; Deputy-Superintendent, Donald McEwan.

Manchester: Superintendent, C. Swinn; Deputy-Superintendent, R. F. Swinn.

BENEVOLENT FUNDS.

The report of the Benevolent Fund Committee recommended payment of grants of 15*l.* each to several widows of registered chemists, and in one instance a grant of 20*l.* The report was adopted.

The report on the War Auxiliary Benevolent Fund stated that several applications for assistance had been received and dealt with. The attention of the Committee was directed to the particulars of the Government scheme of assistance for those Service men who are desirous of pursuing their studies for professional vocations. After discussion of the scheme and of its relation to the Fund, the Committee was of opinion that a definite line of policy should be agreed upon, and with that object in view recommended that representatives of pharmacy who were appointed on the District Selective Committees mentioned in that scheme should meet the War Auxiliary Benevolent Fund Committee as soon as possible. In view of the fact that applications for assistance are becoming more numerous, the Committee considered the advisability of having a certain form of application for all applicants, and recommended that all applications for assistance should be made on the prescribed form.

Mr. PARRY, in moving that the report be received, remarked that now the Council are aware of the scope of the Government scheme for grants and assistance to soldiers, the reason the Committee had for granting loans in the cases considered must be quite apparent. It was not the desire of the Committee to duplicate grants to men. With reference to the Government training scheme, they felt that as the work it covered would dovetail into the work of the District Selective Committees, it was important that the War Auxiliary Benevolent Committee should meet representatives of these Committees as soon as possible, so that a common course of action should be adopted throughout the whole country. Certain points relative to the conditions on which loans should be granted from the Fund, in view of the grants that are likely to be given under the Government scheme for rendering assistance to discharged soldiers, were discussed in Committee.

Mr. PARRY, in moving the adoption of the report of the Committee, said he availed himself of the opportunity then afforded of acknowledging the splendid generosity of pharmacists throughout the country, as evidenced by the amount of subscriptions already actually paid up to that morning—viz., 10,620*l.*

Mr. HINES stated that on the occasion of a visit he recently paid the Harrogate Association the complaint was made that that organisation had received no official information whatever in regard to the Fund.

Mr. PARRY replied that surely every member of the Society obtained full information from the trade journals regarding the Fund. In any case, it was easy for the Secretary of the Association named to write to the Square asking for any particulars he might require.

The SECRETARY said the explanation he had to offer Mr. Hines was that the official communications had only gone to the County Associations, and had not been forwarded to the local organisations affiliated with these.

Mr. SKINNER remarked that, as Secretary of the North London Association, these communications were not sent to him, but came to him through the Association of the County of London and Middlesex.

The report was then adopted.

LIBRARY COMMITTEE.

The report of the Library, Museum, School, and House Committee recommended that the following increase of

salary should be granted as from January 1: Mr. Moon, Deputy-Registrar, 50*l.* The Committee were of opinion that as the salary of Mr. Rutherford Hill, the Resident Secretary in Scotland, had not been increased since August 1915, it should now be increased to 400*l.* per annum by the addition of 50*l.*

The recommendations of the Committee were unanimously adopted.

There were other items in the report of the Committee, but these were read and discussed in Committee.

RECONSTRUCTION COMMITTEE.

The report of this Committee was in the following terms:

Arising out of a motion by Mr. Skinner proposed at the meeting of the Council held in June last, the General Purposes Committee was directed to examine the question of how best to extend the administrative experience of Councillors in the Society's work, whether by constituting a Committee of Chairmen of Committees or otherwise, and to consider any rules of procedure which may be involved, and to report to the Council at the October meeting. The consideration was deferred, and finally referred to this Committee for consideration and report.

The Committee, after full consideration, are of opinion that the desired object can best be attained by re-arrangement of the times of meetings of the Committees and by an alteration in the method of reporting by such Committees to the Council. At the present the Committees are held within a few hours of the Council to which they are to report, and in practice it has been found that adequate time for detailed consideration in Committee and the preparation of adequate reports has not been afforded. In the case of most of the Committees there has been no time for the circulation of their reports to the Council before it meets. The system also makes it difficult to provide in all cases adequate time for discussion in Council of matters involving important questions of principle. The practice of considering questions in General Purposes Committee, which consists of all members of Council and of reporting on matters so considered to the Council, involves duplication of work and an unnecessary expenditure of the time of the members of the Council.

The Committee are of opinion that if, instead of devoting each month the Tuesdays to the Committees and the Wednesday mornings to Council-meetings, practically the whole time on alternate months could be devoted to the work of the Committees, which would report at the succeeding month to the Council, much more time could be devoted to Committee work, and the reports of such Committees could be circulated in ample time before the meeting of the Council, at which these reports would be submitted. All members of Council would, by means of such reports, be informed of the work of each Committee, and would be better prepared for dealing at the Council-meeting with the recommendations made in such reports. That such an arrangement would also prevent needless expenditure of time involved in the consideration by the Council each month of matters of routine which do not necessarily require such frequent attention. The Committee suggests that in February the School and House Committee and Finance Committee should meet on February 4 at 2 P.M., the Journal Committee at 4.30 P.M., and one or other of the Special Committees at 5.30 P.M. That on Wednesday, the 5th, at 10 A.M., the Benevolent Fund and Law Committees should meet, and that at noon the Council should meet to transact any formal or routine business. In March the Law and Finance Committees should meet for the transaction of urgent business on Tuesday at 2.15 P.M., and the Council should meet at 3 P.M. and adjourn at 7 P.M., resuming at 11 A.M. on the next day. At this meeting the reports of the various Committees held in February, copies of which would have been already circulated, would be considered. There would be no occasion for the present Parliamentary and General Purposes Committee, the other Committees reporting direct to the Council, the Council, where necessary, going into Committee for the purpose. The Committee are of opinion that the Local Associations' Executive Committee should each month meet at 10.30 A.M. on the Tuesday prior to the Council-meeting.

On the motion of Mr. SARGEANT, seconded by Mr. PARRY, the report and recommendations were adopted.

PARLIAMENTARY COMMITTEE.

The report of the Parliamentary and General Purposes Committee recommended that it be referred to the Library Committee to consider and report upon the question of erecting in the Society's premises some form of war memorial for those pharmacists and student-associates who have fallen in the war.

The report was adopted.

PARLIAMENTARY FUND COMMITTEE.

The report of this Committee was to the effect that on December 4 Mr. Shattock wired that Mr. Blacow had retired, and a letter was received from Mr. Blacow on the following day stating that he had decided not to be nominated, and thanking the Society for the offered grant. Mr. Woolecock was elected for Central Hackney without contest, and Mr. Bennett was unsuccessful.

THE BY-LAWS.

It was resolved: "That the proposed new by-laws, read and proposed at the meeting of the Council on December 4 and confirmed at the meeting on December 15, be now finally approved and confirmed"; and also "That the corporate seal of the Society be affixed to a copy of the by-laws when adopted at the special general meeting."

The Council then sat in Committee.

Special General Meeting.

A special general meeting of members of the Society was held on the afternoon of January 8 in the lecture theatre at 17 Bloomsbury Square, for the purpose of confirming the by-laws which had been passed by the Council. The Secretary having read the convening notice, the PRESIDENT explained that the proposed new by-laws had been read three times, and moved their adoption. Replying to current criticisms of the raising of the fees, he said that dividing the Qualifying examination makes it a little more expensive to conduct. [An explanation of the changes was given in the *C. & D.*, 1918, p. 998.] The motion was seconded by the VICE-PRESIDENT.

A running fire of questions then broke out, Mr. W. E. CALLAM (E. Dulwich), Lieut. F. W. CROSSLEY-HOLLAND (London), and Mr. E. O. TIMS (Cobham) being among those who desired enlightenment. Mr. ALFRED HIGGS (Kingston-on-Thames) summed up the case against the new by-laws in a brief speech, in the course of which he said that the announcement of this meeting in the "Pharmaceutical Journal" should not have been sandwiched in between advertisements. He saw no reason why examiners should be empowered to give or withhold permission for re-examination, and considered that the year 1923 was not nearly far enough ahead for the time-limit. He also thought that a certificate might be granted to those passing Part I. Mr. TIMS, amid laughter, suggested that candidates might come in through the front door of the Society's premises. At the request of the President, the SECRETARY explained the position. He held that there was urgency in letting men know about future courses of study, and added that a Committee of the Council was already considering the regulations. Draft regulations would be published before being sent to the Privy Council. The consent of the examiners was necessary in order to prevent hopeless candidates from getting through their subjects one at a time. The time-limit was imperative, because two kinds of examination could not continue side by side indefinitely. If a certificate was granted for Part I., men who never finished qualifying would be running drug-stores and exhibiting this certificate to mislead the public. The PRESIDENT then gave his additional assurance as to the publication of draft regulations, and Lieut. CROSSLEY-HOLLAND suggested that if the present door of admission for candidates could not be changed, the word "Welcome" might be inscribed on the mat. The by-laws were then put to the meeting and carried unanimously. A vote of thanks to the President, moved by Mr. HIGGS, closed the proceedings.

Examination Results.

We have received from the Registrar of the Pharmaceutical Society of Great Britain the following list of persons who were granted Minor certificates at the recent examinations:

LONDON.	
Bufton, Oswald A., Leo-	Marshall, Constance F., minster.
Cogman, Victor, Brixton.	Beckenham.
Cooper, William H., Fails-	Street, Alfred G., Ash- worth.
Craigold, Maurice, Man-	Watchorn, Elsie, Southport.
Dunster, Ruth, Devonport.	Watson, Montague T., West Ealing.
Freedman, Harold, Ponty-	Williams, Sidney J., Here- cymmer.
Holman, Harry W., Brook	Williams, William J., Liver- pool.
Johnson, Florene M. M.,	Wineroope, Simon, Leeds.
Moseley.	

EDINBURGH.	
Bentham, Mary E., Brad-	Hinksman, Agnes F. B., ford.
Buick, C. A., Greenock.	Meredith, John, Edinburgh.
Cairnie, Elizabeth, Thurso.	Mitchell, Helen M., Dum- barton.
Combs, Ann F., Glasgow.	Sammel, Leopold, Edin- burgh.
Darling, Constance A., Glas-	
Henson, L. W., Keighley.	

Information Department.

INFORMATION WANTED.

16/25. Dr. York Davis's bis-	13/28. "La Eukonia" powder
euits	12/9. "Cleveland" hair-dye
16/28. Ver adonis	12/10. "Exit" safety razor
7/1. Gower's green pills	11/21. Machinery for compres-
14/61. Rennin: actual makers	sing margarine, etc., into
14/63. Carmine (Stephens &	blocks: makers
Morgan)	

Observations and Reflections.

By Xrayser II.

Your Reference to our Progress

in the manufacture of chemicals, brief as it was, shows that we are already giving the lie to the arrogant German chemist who said a year or two since that "England is incapable of the moral effort required for an industry like this, which implies study, concentration, and fixing one's eye on the distant consequences and not considering the immediate profit." It must be confessed that in the past we have given some ground for such an opinion, and even our own Professor Findlay, in telling the story of the first production of dyes from aniline, says that when Hofman, discouraged by the reception of the discovery, which was made by Perkin, working in the atmosphere largely created by Hofman himself in the Royal College of Chemistry, went back to Germany, he returned to "the more congenial air of his native land." We may safely say that such a thing will not be said again, whether Germans ever come over to help us or not.

The Cocaine and Opium Regulations

are, of course, not the only ones that, as you say in your review of "The Wonderful Year," should not be allowed to become permanent until they have been approved by the representatives of the people. We may say that of most of the Orders in Council that have been issued during the war, and of none more emphatically than of the Order relating to Drugs for the Troops. It is to be hoped that Mr. Woolcock will lose no time in calling the attention of Parliament to the burdensome nature of this and other restrictions, and the truly savage penalties that have in one or two cases been inflicted for inadvertent breaches of them. The annoyances incident to the situation in which we are placed with regard to them are intolerable. This, that happened the other day, is an instance in point. A man in khaki presents a recipe for a cough mixture consisting of a pennyworth each of laudanum, oil of anise, ipecac wine, and oxymel of squills. He is told that it cannot be supplied to a soldier. "Oh, all right," he says, "I'll send my wife for it, then." The chemist asks me what he is to do when the woman (unknown to him though she be) presents the recipe. May he not possibly get into trouble by supplying the stuff? Personally, I think not, but the bare chance is perturbing to a nervous man, and he fears a trap in every such recipe that comes. The absurdity of the situation aggravates the annoyance.

The Police Inspection

of cocaine and opium registers, on which the "Daily Express" comments so sapiently, is almost an insult to pharmacy as a profession, and I am not surprised that some chemists are discussing the desirability of a protest and even talking of declining to dispense prescriptions containing these ingredients. These are desperate counsels, and the latter will, of course, not be acted upon, but there is cause enough for irritation. I have often been amazed by the readiness with which some pharmacists respond to a police officer's demand to inspect the ordinary poison book, which he has no legal right to do. The case is different as regards cocaine and opium registers, but if not protested against it may easily lead to further encroachments on our rights and dignities. If the right of search is allowed without protest in the one case we shall soon be unable to resist the claim in the other. And why should we without proper legal process, in which our status as professional men is recognised and our services remunerated, be compelled virtually to give evidence against our own customers, innocent or guilty (and usually the former)? Personally I have never shown my poison book to a policeman (on demand merely), and have known cases in which to have done so would have laid a customer under undeserved suspicion. This cocaine and opium inquisition seems to offer a good opportunity of airing the whole question.

The Moral Aspect

of the question of prophylaxis against venereal disease is one with which doctors, as such, do not seem to have any special concern. Were they to adopt the attitude of moral judgment towards disease generally their proper occupation would soon be as good as gone, for there are few diseases of the body which are not, wholly or in part, directly or indirectly traceable to wrong or foolish conduct; they would cease to be physicians of the body and would assume the part of physicians of the soul. As members of the community the moral question involved has an interest for them, but not otherwise, unless they are somewhat morbidly conscientious. And, as you remark, they are rather heavily handicapped in an attempt to consider it impartially by the fact that the prevalence of the orthodox view that wrong-doing should carry its appropriate punishment makes for their worldly advantage. Such of them as are really in trouble over the question may console themselves with the reflection that though the fear of its physical effects does act as a deterrent to vice it does not afford the highest motive to virtue.

My Note on Mr. Forbes's Paper.

written before I had seen anything but a very brief report, did it, I am afraid, some injustice; my remarks would seem to apply more to the discussion which followed it than to the paper itself. As a scheme for affording the pharmaceutical student opportunities from the outset for qualifying himself for a scientific career beyond what pharmacy as a business can offer him, Mr. Forbes's programme is altogether admirable, but there is the danger, if we dovetail the classes for a science degree into apprenticeship, of creating such a distaste for mere shopwork as would seriously deplete the ranks of qualified pharmacists and so cause a great increase in the number of our unqualified rivals. And if not directly, yet by implication Mr. Forbes seems to depreciate the value of shop-training. But with these reservations his scheme is admirable. The suggestion that the Pharmaceutical School should be merged in the London University, and the money thus saved be expended in the establishment of a Chair of Pharmacy in the University, is revolutionary indeed, but it is one for which very much might be said. That all qualified men should receive the title of "pharmaceutical chemist" is a reform I have long advocated.

The Term "Dispensatory"

was, of course, in common use as a name for a book of medical formulæ a good while before Quincy produced his, nor was his quite the first of its type. Culpeper's "Dispensatory," a translation of the London Pharmacopeia, was hardly of this type, nor was the so-called "Dispensatory" of Paracelsus, "Faithfully Englished" by W. D. in 1656. But several writers were beforehand with Quincy with works more nearly resembling his own that were popularly called dispensatories. To these indeed Quincy was much indebted. His book first appeared in 1718. His preface opens with the statement that "we are now crowded with Works of that kind" to which it belongs, and it is their imperfections that he alleges as his reason for entering the field. Of Salmon he speaks with contempt, and of "Bates" and Fuller with but scant appreciation, though he copies from both. Indeed, his successor, Dr. Alleyne, regards him as little better than a pirate, and a bungler at that, for he says of his book, "there are more Blunders in it than Pages." It is only fair to add that Alleyne, whose "New Dispensatory" appeared in 1733, confesses to having transcribed whole pages from him, but adds that he has restored his borrowings to their "true Owners," which is, I am afraid, only partially true if Quincy's piracies are as extensive as he says they are.

DRAWING THE LONG BOW.—How dearly the customer with a grievance loves to exaggerate is illustrated in a complaint received by an Edinburgh pharmacist. It reads: "The medicine I got yesterday is making the bairn's eyes and nose run like 'Charley's Aunt.'"

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 "Sanitas Formic Sulphugators."
 "Sanitas Formigators."
 "Sanitas Drain Testers."
 "Sanitas Polishes."
 "Sanitas Distemper," for walls.
 "Sanitas Creoleum" (wood preserver).
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Editorial Articles.

Imports and Exports Control.

An announcement was made in our issue of December 28 (p. 51) that the Department of Import Restrictions of the Board of Trade had abandoned the Permit to Purchase System, which has applied since March last to all imports of goods from the United States. This fact does not appear to have been fully appreciated as yet, as we are now informed that the Department of Import Restrictions is still being applied to for licences to import, and it may be as well to emphasise the fact that practically all crude

drugs, chemicals, essential oils, and other produce can be imported from the United States without restriction. Special cargo facilities have been granted for the export of crude drugs and pharmaceutical chemicals, and naturally they take precedence over, say, the claims for freight for heavy chemicals. At the moment, however, the feeling is one of apathy on this side in regard to the importation of further supplies of drugs and chemicals by the recognised dealers, many of whom prefer not to take risks when the general expectation is for lower prices. It is not as if export trading, upon which many depend, was unfettered and uncontrolled, though the steps which have been taken to place many important items on the "C" List (which prohibits exports only to countries neighbouring enemy countries) should help to ease matters considerably. Licences to export many of the popular medicinal chemicals are now freely granted, and the number of those being transferred to the "C" List grows weekly. It appears that corresponding rulings in relation to import and export licences have been made by the American War Trade Board, and many restrictions have been removed. On the export side, one of the first restrictions to be changed was that which limited the validity of export licences to a period of ninety days; such licences are now valid until used. This step was soon followed by the withdrawal from the conservation list of several hundred commodities whose exportation had been restricted, in some instances to the point of prohibition, by their greater need for the war purposes of the United States and the Allies. It is the announced policy to release other of these conserved commodities for general export purposes as rapidly as circumstances permit. Regulations governing importations have been similarly modified and relaxed. In regard to goods still on the list of prohibited imports in the United Kingdom and not liberated by means of general licence, it is necessary to procure authority for importation before shipment is made. The abolition of the permit system, or the freedom from export restriction in the United States, does not confer upon any prohibited goods the right of entry into the United Kingdom without a licence. The United States authorities have been keenly alive to the necessity for quickly resuming export trading, and already Denmark, Norway, and Sweden have been singled out for special treatment in regard to chemicals and drugs, applications for these countries being considered whether the commodity is rationed or not. The United States has also taken the ban off many exports to all parts of the British Empire, special tonnage having been allocated for several of the Colonies and individual export licences for many items have been abolished. This is an indication of the trend of matters, and there is some satisfaction that the Allies are working in conjunction in the restoration of foreign trade. As we have had several inquiries as to whether glycerin can be exported, we wish to emphasise the fact that "glycerin and preparations containing glycerin not otherwise specifically prohibited" were transferred from the "A" to "C" list of prohibitions, and the position now is that glycerin may be exported without licence to the Colonies—the Allied and neutral countries except those neighbouring enemy countries, *i.e.*, Holland, Sweden, Norway, and Switzerland.

A Pharmacy Workers' Union.

FOR some time the active campaign of the Amalgamated Society of Pharmacists, Drug and Chemical Workers has been hampered from the delay in the office of the Registrar of Friendly Societies to carry through the registration of the Society as a trade union. Mr. E. N. Lloyd, the Secretary, now informs us that this formality has been duly completed, and that the Society is starting upon its career as the first trade union in this country devoted solely to workers in the drug-trade. It is, perhaps, unnecessary here to refer to the advantages which such a union presents over one which includes all kinds of labour, but the problems in the drug-trade are of a nature which require handling by people conversant with the nature of the business. It happens that this week the

newspapers are publishing paragraphs headed "A Pill Strike," "Strike of Chemists' Assistants," which, in certain circumstances, is to be called by the National Amalgamated Union of Shop Assistants. On inquiry we are told that this refers to women workers in "the chemists' and druggists' trade," but so far as we can make out the matter concerns a local dispute among workers in the wholesale. The confusion here indicated is where journals and the public show their lack of knowledge of what the drug-trade really is. It happens, however, to come at a time when the Amalgamated Society of Pharmacists, Drug and Chemical Workers are urging the classes of workers comprised within the title of the Society to leave general labourers' unions and join a special trade union. This will probably be the course of action in the future. We are informed that already 3,000 members have been obtained for the new union, the aims of which are thus stated by the officials:

1. To consolidate those employed in retail and public pharmacies with those engaged in the wholesale drug- and chemical-trade in one union.
2. To form the employés' section of a Joint Industrial Council as set forth in the Whitley Scheme of organisation.
3. To organise wages and conditions of employment on an equitable basis arranged by those who know and understand the drug-trade and chemical-trade.
4. To provide the usual trade-union benefits for its members.
5. To aim at reasonable security of tenure.
6. To provide a register of employment for its members.
7. To conserve the entrance into pharmacy and the drug-trade to men and women properly trained and equipped.
8. To assist the Pharmaceutical Society in every way for the protection of duly-qualified pharmacists.
9. To arrange for a weekly paper dealing with all questions affecting employés in the drug- and chemical-trade.

The programme is an ambitious one, but given wise leadership should not offend the most conservative chemist. The question naturally arises, "Is a trade union needed in the drug-trade?" This may be answered by reminding the inquirer that every business in future will have to be more highly organised for representative purposes, and that a well-directed union makes for the smooth working of the social machine. The aim set forth under the second heading is perhaps one of the most important, as it is certain that Whitley Councils will have an important part in the future of the industries of this country—that is, if the promises of the Government mean anything. The Amalgamated Society is aiming to become the employés' section of the Joint Industrial Council of the drug-trade. The pharmacists referred to in the title are those who are not employers; the latter will probably be represented on the Whitley Council by the Pharmaceutical Society. Wholesale drugists will form another section of the representation from a recognised body like the Drug Club. The Amalgamated Society has appointed an organising secretary, and offices have been taken at 31-33 Chancery Station Buildings, Holborn, London, W.C. 1. Our memory goes back to attempts that were made many years ago to found an assistants' union, but the effort was premature. Time alone will show whether the present movement will result in a permanent organisation. The driving power is considerable, and the objects more attainable at the present day than ever before.

Chemists' Lozenges.

COMPLAINTS are reaching us that, notwithstanding the increased grant of sugar, it is difficult to obtain adequate supplies of chemists' lozenges. It is possible that labour troubles are the cause of the delay, and we suggest that manufacturers of medicated lozenges should make representations to the Demobilisation authorities so as to obtain the early release of their workers still in the Army.

Demobilisation Notes.

THOSE men in the Army who left France and Belgium after Christmas for leave in this country were told that if whilst on leave they could produce satisfactory evidence

that a situation was waiting for them they need not return to the Army but would be demobilised forthwith. It was further announced that if the matter could not be carried out before the expiry of the fourteen-day leave the soldier could obtain an extension of leave to allow the authorities time to complete the process. The extent of the concession was somewhat startling when one considers that a special committee had been set up to arrange for the release of fifty pharmacists. It looked as though someone had cut through the red tape which is strangling the efforts of the fourteen Government Departments concerned with demobilisation. It is to be hoped that some chemists have been able to take advantage of the concession, and have obtained the release of assistants and apprentices who happen to be on leave. On Tuesday, however, the War Office announced "so soon as the necessary instructions can be given demobilisation of officers and men while on leave from France is to cease." From a date to be fixed and to be announced later no officer or soldier will be permitted to proceed to England on leave from France except on the distinct understanding that he returns to his unit on the expiration of his leave, and he will not be demobilised on any pretext whatever during his period of leave. It is easy to understand the War Office point of view, that until peace is declared it is necessary for the Allies to be in a position to overcome any resistance of the enemy, but it is a little difficult to reconcile this with the haphazard demobilisation of leave men. In the meantime we advise chemists to continue to claim their assistants and apprentices as "slip" men, and trust that the Army Council will realise that button-polishing and endless drilling are not attractive to men who, having won the war, are anxious to return to situations that await them.

Sales of Dutiable Articles.

IN THE CHEMIST AND DRUGGIST, November 30, 1918, p. 37, we reported a case which involves a question of interest to all chemists and druggists who contract for the purchase or sale of goods which are subject to a duty of Customs or Excise. The case was a sale of saccharin which took place on "Budget day," April 22, 1918. The saccharin at the time of the sale had already had the duty at the rate then in force (72s. a lb.) paid on it. Before delivery was made to the buyer the Budget increased the duty by another 60s. a lb., and the seller claimed that the buyer should pay him an increase in the price agreed upon between them sufficient to cover this increase in the duty. The High Court held that he was under no obligation to do so, and that the seller was bound to deliver the saccharin at the price at which it was sold. In view of the probable impending changes in the rates of duty on chemicals imported, and of the possible imposition of new duties on articles not now taxed, it would be well that our readers should have a clear understanding as to how the parties who buy or sell dutiable articles may be affected by a change being made in the rate of duty at the time which intervenes between the sale and the delivery to the buyer. The general rule is that when a bargain is made to sell anything for a certain price, the seller is bound to deliver it to the buyer on payment of that price. But a statute provides that, in the case of goods which are in official custody in a duty-free warehouse or quay, if a new duty is imposed on them or the duty payable on them is increased and they are delivered from the warehouse after the date when the new or the increased duty came into force, and they had been sold to a purchaser under a contract made before the duty came into force, then the seller is entitled to recover as an addition to the contract price a sum equal to the amount he has had to pay owing to the new or increased duty. On the other hand, the buyer of goods upon which duty has been reduced or taken off in like circumstances is entitled to a similar reduction in the price he agreed to pay under the contract. If the buyer and seller cannot agree as to how much ought to be added or deducted from the price, the Commissioners of Customs and Excise are given power to fix the sum; and the parties may by express agreement in the contract of sale exclude the operation of the statute altogether.

Associations' Winter Session.

Aberdeen.—A meeting of the Aberdeen Junior Chemists' Association was held at Gordon's College on January 3. Bailie Ness entertained the company to a whist-drive, which was much enjoyed, Mrs. Ness presenting the prizes to the winners. Thereafter Mr. Anderson, Hon. President, presented Miss J. Y. Stephenson, Treasurer, with a handbag and an electric-fitted timepiece, subscribed for by the members of the Association on the occasion of her leaving Aberdeen. Mr. Anderson referred to her sterling qualities, and assured her of the good wishes of the Association in her new sphere of labour. Miss Stephenson suitably replied. Games were then entered into until a late hour. A vote of thanks to Bailie and Mrs. Ness for their generosity brought a very pleasant evening to a close.

Great Yarmouth.—The monthly meeting of the Great Yarmouth Pharmaceutical Association was held at 156 King Street on January 1, Mr. J. S. Sharman (President) in the chair. The Secretary read replies from the Parliamentary candidates as to the position of pharmacists in a State medical service. Correspondence and formal business concluded the meeting.

London (W.). The Hammersmith and Fulham members of the Western Pharmacists' Association held a *soirée* at the Clarendon Restaurant, Hammersmith, on January 2. The proceedings took the form of a supper and concert, which was well attended. The President (Mr. C. A. Noble) took the chair. After justice had been done to an excellent and well-chosen repast, Mr. Shirtliff proposed "The health of the President," and mentioned the great success of the local collection for the War Auxiliary Benevolent Fund. The President, in replying, announced that the first list for the Association exceeded 500., and he hoped it would reach 1,000. Mr. Proter proposed "The Visitors," to which Mr. Bowie responded. Mr. A. W. Hall thanked the artists, and Mr. Widgery replied. The success of the meeting was a good augury for the opening of the *post-bellum* social programme of the Association. The programme was provided by Misses Widgery and Wilkinson, Mr. Hamilton, Mr. Milner, Miss Proter, Mrs. Edwards, Mr. Sandford, and Mr. Widgery. Mr. Feltwell (runner-up in the bowls competition) was presented with a bowls case, and expressed his thanks in a humorous speech. The Glaxo Cup and the bowls cup presented by Mr. Shirtliff were in evidence on the President's table.

Southend-on-Sea.—The annual general meeting of the Southend-on-Sea Association of Pharmacists was held at 167 High Street, on January 2, the President (Mr. E. A. Holloway) in the chair. The Treasurer (Mr. S. Y. Spouncer) presented his report, which showed a credit balance of 2l. 2s. 4d. The following officers were elected for 1919: President, Mr. R. H. Shields; Vice-President, Mr. F. H. King; Secretary, Mr. S. F. Body; Assistant Secretary, Mr. A. Vint; Treasurer, Mr. W. T. Hill; Committee, Messrs. A. H. Carpenter, J. G. Cowe, J. H. Heywood, W. Lee, W. L. Misselbrook, S. Y. Spouncer, A. Vint, and G. Wilson. A vote of thanks was accorded to the retiring officers and members of Committee for their services during the past year. Mr. Holloway read the list of subscriptions collected by Mr. Body and himself on behalf of the War Auxiliary Benevolent Fund of the Pharmaceutical Society, the total amount collected to date being 83l. It was agreed that monthly meetings of the Association be held immediately following the monthly meetings of the Pharmaceutical Council, and that the account of the preceding Council-meeting be placed on the Association agenda. Arrangements for a social evening agreed on were left in the hands of the Committee. It was also decided that an evening be set aside for a discussion on the Proprietary Articles Trade Association. The Secretary was requested to address a letter to the Town Clerk stating that pharmacists would be glad to be afforded an opportunity of serving on the local Committee which directs the Maternity and Child Welfare Centre.

WHERE THEY DON'T SHINE.—The Carleton case has afforded the lay Press another opportunity of displaying its extensive and peculiar knowledge of pharmacy. Thus the patrician "Times" and the plebeian "Morning Advertiser" unite in making it appear that a medical witness prescribed "20 grain cachets of phenol." The context shows that the phrase means "cachets each containing 20 grains of phenol." These good people might have remembered to their advantage the connection between the word "phenol" and the Greek verb for "to shine."

Pharmaceutical Roll of Honour.

Non sibi sed patriæ.—CICERO.

(Continued from C. & D., January 4, p. 48.)

II. Chemists' Sons, Assistants and Apprentices.

Name	Military or Naval rank and other titles	Regt.	Place with which connected	Year of Death	Name	Military or Naval rank and other titles	Regt.	Place with which connected	Year of Death
Acton, N.	Lieut.	Worcesters	Worcester	1917	Coull, S. McL.	Cpl.	R. Scots ...	Leith ...	1916
Aked, C.	Pte.	W. Yorks	Lancaster	1917	Cousins, E. E. J.	Pte.	Glo'sters	St. Albans ...	1917
Alexander, A.	Pte.	Nthd. Fus.	Newcastle	1916	Cowie, D.	Pte.	Gordons ...	Edinburgh ...	1915
Allan, R.	Pte.	H.L.I.	Kelso	1918	Cowie, J. J.	L.-Cpl.	Cameros	Edinburgh ...	1915
Allsop, E. S.	Cpl.	H.A.C.	London	1917	Cox, J.	Pte.	A. & S.H.	Glasgow ...	1917
Anderson, G.	Gnr.	R.F.A.	Scarborough	1916	Craig, W.	Seaman	—	Ilfracombe ...	1917
Anderson, T.	Pte.	—	Blackburn	1917	Cranmer, C. T.	L.-Cpl.	R.W. Fus.	Burnley ...	1918
Anderson, W.	Pte.	Gordons ...	Aberdeen	1915	Craven, T. H.	Pte.	R.S. Fus.	Leeds ...	1916
Anderton, J. W.	Pte.	W. Yorks	Leeds	1917	Croll, A.	Pte.	Camerons	Montrose ...	1918
Anmiss, W.	Pte.	D.L.I.	W. Hartlepool	1917	Crowden, F.	Sgt.	R.A.M.C.	Lincoln ...	1918
Aspell, S. G.	Pte.	K.L.R.	Douglas	1916	Crowther, R. E.	Pte.	W.Yorks	Heckmondwike ...	1918
Aston, W. D.	Capt.	Cambs.	Worthing	1917	Crozier, G.	Pte.	R. Fus.	Manchester ...	1915
Atkinson, N.	Gnr.	R.F.A.	Harrogate	1917	Cruse, P.	Pmst.	—	Southsea ...	1916
Auld, E.	Gnr.	R.G.A.	Edinburgh	1916	Cumming, G.	2nd-Lt.	—	Crewe ...	1916
Baggs, E. E.	Pte.	Worcesters	Reading	1917	Cumming, J.	L.-Cpl.	—	Stonehaven ...	1917
Baguley, F.	Pte.	A.S.C.	Nottingham	1917	Cunningham, A.G.	Pte.	H.L.I.	Gorebridge ...	1916
Bailey, J.	Pte.	K.L.R.	Oldham	1917	Curtin, P.	Pte.	R.A.M.C.	Midleton	1917
Baker, —	Pte.	Buffs	Margate	1915	Curtis, M.	Pte.	R.M.L.I.	Skipton ...	1917
Balter, C.	Pte.	L.N.L.R.	Tunbridge Wells	1917	Cutts, H.	Pte.	K.O.Y.L.I.	Doncaster ...	1917
Barker, H.	Pte.	M.G.C.	Buckley	1918	Daccus, E.	Pte.	—	Leeds ...	1917
Barlass, J.	Pte.	R. Scots ...	Blairgowrie	1915	Daniel, C. B.	Cpl.	R. Fus.	London ...	1917
Barnes, E.	Pte.	Can. For.	Felixstowe	1915	Daniel, R.	Sgt.	W. Ish ...	Newport (P.) ...	1917
Barnes, W.	Pte.	Buffs	Soutbend	1917	Davidge, H.E.J.	Cpl.	R.E.	London ...	1916
Barton, E. H.	Sgt.	R.A.M.C.	Woking	1918	Davidson, R.	Bdr.	R.F.A.	Dumfries ...	1916
Barton, H. R.	Sgt.	—	Street	1918	Davidson, W. H.	Sgt.	H.A.C.	Manchester ...	1917
Basker, H.	2nd-Lt.	Som. L.I.	Bridgewater	1915	Davies, B. O.	Lieut.	R.W. Fus.	Cefn (R.) ...	1918
Bateson, L.	L.D.S.	—	—	—	Davies, Harold	Pte.	Cheshire ...	Oldham ...	1917
Baxter, G. C.	Pte.	Gbeshire ...	Northwich	1916	Davies, Hugh	Cpl.	R.E.	Enfield ...	1917
Bayes, E. A.	Gnr.	R.G.A.	Grangemonth ...	1918	Davies, R.	Pte.	Manchester	Manchester ...	1916
Beckwith, A. E.	Pte.	H.L.I.	Mexborough	1917	Davies, T. H.	Pte.	M.S.C.	Douglas (I.M.) ...	1916
Bell, W. H.	L.-Cpl.	Mdsx.	London	1915	Davy, C. C.	Pte.	Camerons	Rotherham ...	1917
Bells, H. C.	Pte.	R.A.M.C.	Apsatria	1915	Davy, P. R.	Pte.	M.G.C.	Rotherham ...	1918
Benn, E. J.	Pte.	R.M.L.I.	Illingham (K.)	1917	de Faye, E. F.	2nd-Lt.	Tank Corps	St. Heliers ...	1917
Bennett, A. R.	2nd-Lt.	R.A.F.	Newcastle	1918	De la Rue, C. F.	L.-Cpl.	R.I. Fus.	St. Peter Port ...	1918
Bennett, —	Cpl.	Buffs	Blackpool	1916	Dempster, A.	Pte.	R.A.M.C.	Grangemouth ...	1918
Bentley, J.	L.-Cpl.	E. Yorks ...	Leeds	1918	Denham, N. F.	Pte.	D.L.I.	Shipley ...	1918
Berry, A.	Drv.	R.F.A.	Huddersfield	1917	Dey, A.	Pte.	Gordons ...	Udny ...	1917
Beswick, H.	Spr.	R.E.	Ripon	1918	Dodgecon, A.	Rfmn.	R. Fus.	Burnley ...	1916
Biddle, J. E.	Pte.	R.W.R.	Birmingham	1917	Dodworth, G. J.	Sgt.	Nthd. Fus.	Sheffield ...	1918
Bland, J.	Cpl.	Seaforths	Lancaster	1915	Douglas, D.	Lieut.	E. Lancs	Prestwich ...	1917
Blyth, R. P.	2nd-Lt.	A. & S.H.	Leith	1917	Douthwaite, P. F.	Spr.	R.E.	Grinsty ...	1917
Boote, C. W.	Capt.	Cheshire ...	Liverpool	1916	Drysdale, A. C.	Pte.	Mdsx.	London ...	1915
Borthwick, E.	Pte.	K.O.S.B.	Moffat	1916	Dulley, C.	Cpl.	—	Cromer ...	1916
Bownas, F.	Pte.	A. & S.H.	Whitehaven	1917	Dunn, J.	Lieut.	Seaforths	Limerick ...	1917
Brandle, T. T.	Pte.	R. Scots ...	Edinburgh	1916	Dunstall, A. H.	Pnr.	R.E.	Bedford ...	1917
Bratley, C. W.	Pte.	Y. & L.R.	Ponte fract	1918	Earle, C.	Lieut.	E. Lancs	Hull ...	1918
Bright, R. F.	Pte.	—	Peterborough	1916	Eccleston, A.	Pte.	E. Lancs	Radcliffe ...	1918
Brindle, T. T.	Pte.	R. Scots	Edinburgh	1916	Edward, W. W.	Pte.	Camerons	Gillingham (K.) ...	1916
Britton, A. S.	Pte.	R.W.R.	Pontyryhl	1916	Edwards, A.	Pte.	R.W. Fus.	Oswestry ...	1917
Brodie, —	2nd-Lt.	R. Scots ...	Stirling	1917	Edwards, F. G.	Pte.	R. Susse ...	Carfax ...	1917
Brown, O.	L.-Cpl.	R.A.M.C.	London	1918	Edwards, R. V.	Bdr.	R.G.A.	Penzance ...	1917
Brown, E. H.	Lieut.	Essex ...	Halstead	1917	Edwards, T. R.	Pte.	H.A.C.	Tregaron ...	1917
Brown, R.	Cpl.	E. Lancs.	Blackburn	1915	Eglinton, F. J.	Bdr.	H.A.C.	London ...	1917
Brown, T. B.	Gnr.	—	Aberdeen	1917	Emmies, —	Sgt.	Black Watch	Montrose ...	1918
Bryant, F.	Pte.	Glo'sters ...	Bath	1916	Evans, B.	2nd-Lt.	R.F.C.	London ...	1918
Bullard, G.	Pte.	R.A.M.C.	Royston	1916	Everett, —	Pte.	—	Colchester ...	1917
Burgess, J. O.	Pte.	H.L.I.	Glasgow	1916	Everitt, T. A. J.	L.-Cpl.	Norfolk ...	Mundesley ...	1917
Burnell, F. J.	Pte.	—	Aylesbury	1917	Fairweather, W.R.	Pte.	Seaforths	Duudie ...	1917
Burton, E. C.	Pte.	R.W.R.	Birmingham	1916	Fallowfield, R.	S.-Sgt.	R.A.M.C.	Penrith ...	1918
Butterworth, A.	Sgt.	Black Watch	Salford	1917	Farr, J.	L.-Cpl.	Rif. Brig.	Uckfield ...	1916
Calcraft, T.	Rifm.	Rif. Bdg.	Southend	1917	Fawcett, H.	Sgnr.	R.M.L.I.	Leeds ...	1917
Cambridge, R.	Pte.	N.Z. For.	Carrickfergus	1917	Fielding, F.	Pte.	Manchester	Marsden ...	1916
Campbell, D.	Pte.	H.L.I.	Dunmries	1917	Fishburn, A.	L.-Cpl.	W. Yorks	—	1916
Campbell, W.	Pnr.	R.E.	Ayr	1918	Fletcher, E. S.	2nd-Lt.	W. Yorks	Leeds ...	1918
Carter, C.	Gnr.	R.G.A.	Ripon	1917	Flint, E.	Pte.	R.N.V.R.	London ...	1916
Caunt, C.	Pte.	R.A.M.C.	Kington	1917	Foran, W.	Pte.	Manchester	Manchester ...	1915
Chalmers, A. D.	Cpl.	Scot. Horse	London	1915	Ford, E. T.	Pnr.	R.E.	Silverdale (S.) ...	1918
Chasney, L. H.	Pte.	Queen's ...	London	1918	Forret, J. S.	Pte.	R. Scots ...	Edinburgh ...	1916
Cherry, J.	Sgt.	R.In.F.	Enniskillen	1917	Foster, R. G.	Lieut.	Can. For.	London ...	1918
Clark, H.	L.-Cpl.	R.A.M.C.	Scunthorpe	1918	Fox, C. J.	Pnr.	R.E.	Ramsgate ...	1918
Clarke, W. R.	Lieut.	R.F.A.	Gravesend	1918	Franks, F.	Pte.	W. Yorks	Sheffield ...	1918
Clayton, A. P.	Cpl.	D.C.L.I.	Manchester	1918	Fraser, A.	Pte.	W.R.R.	Helmsdale ...	1918
Clayton, G. W.	Pte.	—	York	1916	Frost, F. D.	Bugler	W. Yorks	Bradford ...	1916
Clemon, S. F.	Pte.	Rifl. Bdg.	London	1918	Fryer, W. B.	Lieut.	S. Staffs ...	Walsall ...	1916
Collis, L.	L.-Cpl.	—	Whitchaven	1918	Furby, G.	Pnr.	R.E.	Harrogate ...	1917
Comyns, —	—	—	Carshalton	1917	Garrell, W.	Drmr.	Lincs ...	Boston ...	1917
Conway, J. P.	Pte.	Rifl. Bdg.	Burnley	1915	Gilbert, D.	Gnr.	R.G.A.	Ventnor ...	1918
Conyngham, O. T.	Capt.	R.A.M.C.	Dublin	1914	Glasgow, R. A.	Pte.	Lancs Fus.	Lytham ...	1917
M.B. B.Ch.	C.Q.S.	Hants	Sandown	1918	Gobey, T.	Pte.	Manchester	Chichester ...	1917
Cooper, W. G.	Pte.	H.A.C.	London	1916	Goddard, H. E.	Pte.	Suffols	Gt. Yarmouth ...	1916
Corin, H.	Pte.	Wiltshire	Burnley	1918	Godden, A. J.	Cpl.	R.W. Kent	Uckfield ...	1915
Cork, W.	Pte.	Nthd. Fus.	Blyth	1916	Golden, J. N.	Gnr.	R.F.A.	Levensulme ...	1918
Cormack, G.	Cpl.	—	Corstorphine	1918	Goldswain, F.	Trpr.	Yeomanry	Windsor ...	1917
Cormack, S.	2nd-Lt.	R.F.A.	Corstorphine	1918	Graham, C.	Pte.	Hants	Bournemouth ...	1916
Cornwell, E.	Pte.	N. Staffs.	Hanley	1918	Graham, J. A.	Rifm.	R.I.R.	Belfast ...	1916
Cortis, J. H.	2nd-Lt.	Wiltshire	Worthing	1915	Grant, H.	L.-Sgt.	R. Fus.	London ...	1915
Cossey, Alfred M.	L.-Cpl.	Norfolk	Norwich	1917	Gray, G.	Pte.	R.S. Fus.	L. th ...	1917
					Gray, S.	Pte.	Yorks ...	Bowness (W.) ...	1916
					Graeves, J. B.	Pte.	W. Yorks	York ...	1917
					Gregory, W.	Cpl.	Seaforths	Whitchaven ...	1917
					Griffiths, G. L.	Pte.	E. Lancs	Bolton ...	1918
					Grindell, I.	Pte.	K.L.R.	Barnsley ...	1918
					Gylee, —	Gnr.	R.F.A.	Luton ...	1917
					Hadyn, T.	Cpl.	Devons	Brighton ...	1916
					Haile, K.	Pte.	—	Perth ...	1914
					Hall, R.	Pte.	Camerons	Tunbridge Wells ...	1916
					Hall, S. R.	Pnr.	R.E.	Rushden ...	1917
					Hankins, H.	Pte.	R.F.A.	Bradford ...	1917
					Hanson, F.	Pte.	R.F.A.	—	—

Name	Military or Naval rank and other titles	Regt.	Place with which connected	Year of Death	Name	Military or Naval rank and other titles	Regt.	Place with which connected	Year of Death
Hanson, H.	Pte.	M.G.C.	Halifax	1918	MacGregor, J.	Pte.	R.F.A.	Edinburgh	1918
Hardie, R.	C.S.M.	—	Coldstream	1916	McIntosh, J.	Pte.	Buckie	1916	
Harman, R. S.	Cpl.	R.Muns. Fus.	Cairciveen	1917	McLennan, D. J.	Pte.	Edinburgh	1917	
Harper, J.	Pte.	R.E.	London	1917	McNally, H.	Cpl.	Connaughts	Ballymena	1916
Harris, F.	Sgnr.	Som. L.I.	Bath	1917	McNamara, C.	Pte.	E. Yorks.	Oswestry	1917
Harrison, T.	Pte.	—	Clitheroe	1917	McNay, J.	L.-Cpl.	H.L.I.	Kilmarnock	1917
Harry, W.	A.-M.	R.N.A.S.	Lowestoft	1916	McPhee, J.	A.V.C.	Falkirk	1917	
Hartnett, M.	Lieut.	R.F.C.	Keumare	1917	McRither, D. G.	L.-Cpl.	M.G.C.	Edinburgh	1917
Hassall, W. L.	Pte.	R.E.	Uttorxeter	1918	MacVeagh, W. J.	Lieut.	Mun. Fus.	Bangor (co. Down)	1917
Howard, H. W.	2nd-Lt.	Bedfords	Littlehampton	1918	McVitie, J. M. G.	Opl.	London	Maryport	1918
Hay, J.	Pte.	Black Watch	Edinburgh	1915	Mazill, W.	Sgt.	R.I.R.	Belfast	1916
Helges, W. H.	Capt.	R.E.	Birmingham	1916	Maloney, H.	Pte.	Stoke-on-Trent	Burnham (Som.)	1917
Hegarty, M. F.	S.-Sgt.	R.A.M.C.	Mallow	1918	Marchant, G.	Pte.	Som. L.I.	Maidstone	1916
Heary, U.	Pte.	R. Sussex	Maesycwrt	1918	Marchant, R. H.	2nd-It.	R.A.M.C.	Kilkenny	1915
Henry, G.	Pte.	R.E.	Tylorstown	1917	Marmion, B.	Pte.	R. Fus.	Canterbury	1917
Herd, J. W.	L.-Cpl.	R.W.S.R.	Bath	1918	Marsh, C. R.	Pte.	Mdsx.	Ellon	1916
Herrity, J. W.	Pte.	A.C.C.	Manchester	1917	Marshall, H.	Pte.	R. Fus.	Richmond (S.)	1916
Hersant, W.	Pte.	—	Lou Lou	1917	Martin, T.	1te.	Camerons	Glasgow	1916
Heselhine, J.	Pte.	Lancs. Fus.	Manchester	1917	Mason, A. D.	L.-Cpl.	Hampton (Msx.)	Blackhall	1918
Hewitt, F.	L.-Cpl.	Bedfords	London	1916	Mason, R. L.	Pte.	R. Scots.	R.N.	1915
Hewson, G. H.	Sgt.	W. Yorks	Harrogate	1918	Matthewson, D. C.	L.-Cpl.	R. Fus.	Ross	1915
Hill, S.	Pte.	A.S.C.	Preston (L.)	1918	Matthews, V. L.	Sur.	A.R.A.M.C.	Aberdeen	1917
Hilliwell, H.	Sgt.	W.R.R.	Halifax	1916	Melvin, A. G.	Pte.	Scots Gds.	Glasgow	1914
Hills, A. H.	2nd-Lt.	Hants.	London	1918	Miller, J.	Pte.	Kirkintilloch	1916	
Hind, H. W.	Cpl.	Leicesters	Leicester	1915	Miller, S.	L.-Cpl.	Manchester	1918	
Hindle, G. H. H.	Pte.	Nthd. Fus.	S. Elmsall	1917	Mitchell, D. S.	Pte.	London	London	1916
Hobbs, A. V.	2nd-Lt.	R.F.C.	Tunbridge Wells	1915	Morelli, E. A.	Sgt.	R.F.A.	Blackburn	1918
Hobbs, B. F.	L.-Cpl.	—	Tunbridge Wells	1916	Morley, J. K. G.	Lt.	R.E.	Douglas, I. M.	1917
Hodder, G. J.	L.-Cpl.	Northants	W. Croydon	1918	Mullen, J.	L.-Cpl.	Herefords	Chard	1918
Hodges, R.	Pte.	Herefords	Hereford	1917	Munleau, A. S.	Pte.	Pollokshields	Pollokshields	1917
Hodgson, R.	Art.	—	Wakefield	1916	Munro, R.	Lieut.	London	London	1914
Holla-ny, E.	W.O.-p.	Buffs	Folkestone	1918	Murisou, D. B.	Pte.	Nthd. Fus.	Manchester	1917
Holtum, L. E.	L.-Cpl.	—	Canterbury	1918	Napier, D.	Pte.	Y. & L.	Sheffield	1916
Honiatt, —	Pte.	R.M.L.I.	London	1916	Newsholme, T. A. W.	Pte.	Leeds	Leeds	1918
Hooper, D. E.	2nd-Lt.	E. Lancs	Weston-s.-Mare	1915	Nicholson, W.	Pte.	Edinburgh	Edinburgh	1918
Horne, J. L.	Pte.	Manchester	Tarleton	1916	Nicol, J.	Pte.	Wakefield	Wakefield	1918
Hotecin, J. G.	Cpl.	R.H.A.	Henley-in-Adren	1917	O'Hara, J.	Cpl.	Connaughts	Dublin	1918
Howells, E. J.	2nd-Lt.	—	Monmouth	1917	Oliver, J.	L.-Cpl.	Hampshire	Aldershot	1918
Hughes, A. C.	Pte.	S.W. Bord.	Hereford	1918	Orlons, S.	Pte.	London	Wooler	1916
Hughes, A. D.	Pte.	R. Fus.	Altringham	1916	Page, W.	Pte.	Mdsx.	Watford	1916
Hughes, H.	L.-Cpl.	R.W. Fus.	Wrexham	1917	Parcell, J. F.	Pte.	Herts	Hitchin	1916
Hughes, H. C.	Lieut.	R.W. Fus.	Denbigh	1918	Parke, C. P.	2nd-Lt.	M.G.C.	Bolton	1918
Hughes, R.	C.S.M.	Lancs. Fus.	Sale	1916	Parker, —	Cpl.	Y. & L.	Malton	1918
Hunter, T. W.	Lieut.	R.F.A.	Dundee	1918	Parker, W.	2nd-Lt.	W. Yorks	Heckmondwike	1917
Inzell, A. L.	Bdr.	R.F.A.	Ashford (K.)	1917	Parkhouse, R.	Pte.	Worcesters	Eastbourne	1916
Inzall, A. E.	Pte.	—	Manchester	1918	Parkin, G. F.	2nd-Lt.	W. Yorks	Doncaster	1917
Innes, W. R.	Capt.	Cheshire	Stalybridge	1916	Parrish, F.	Pte.	Queen's.	Barnet	1917
Inrons, J.	Pte.	R. Scots	Dundee	1916	Parsons, H.	L.-Cpl.	Burns	Deal	1918
Ison, C. F.	L.-Cpl.	O. & B.L.I.	Atherstone	1917	Passmore, H. E.	Capt.	Can. For.	London	1915
Jackson, C. J.	Pte.	M.G.C.	Bolton	1918	Paterson, J.	Pte.	Black Watch	Dunfermline	1915
Jackson, F. P.	Pte.	Devons	London	1915	Paton, C. W.	Lieut.	R.A.F.	Harrogate	1918
Jackson, H.	Pte.	—	Wrexham	1918	Pearce, G. V.	2nd-Lt.	R.W.R.	London	1914
Jackson, L.	Pte.	Nthd. Fus.	Yeadon	1917	Pearce, W. F.	Pte.	—	Exeter	1918
Johnson, C. J.	Pte.	Manchester	Wigan	1915	Pedder, L.	Pte.	Worcesters	Swindon	1918
Jones, C. O. H.	Surz.	R.N.	Londou	1916	Perks, L. S.	Cpl.	Ilkley	Ilkley	1916
Jones, D.	M.R.C.S., L.R.C.P.	—	Llanfyllin	1917	Phillips, A. P.	Pte.	London	London	1916
Jones, E. T.	Pte.	—	Wrexham	1918	Phipps, O. W.	Cpl.	Swindon	Shrewsbury	1917
Jones, G. F.	Capt. M.C.	Shr. L.I.	Harrogate	1918	Pickering, R. C.	Cpl.	R.F.A.	Crowle	1918
Jones, T.	Cpl.	R.A.M.C.	Aberystwyth	1917	Pinchbeck, H.	1te.	Rif. Bdg.	Birmingham	1916
Jones, T. H.	Sgt.	Shr. L.I.	Oswestry	1918	Piper, S. J.	Pte.	R.W.R.	Tunbridge Wells	1918
Jordan, J. V. T.	Pte.	R.W.R.	Birmingham	1917	Plevin, N.	Pte.	K.L.R.	Liverpool	1915
Jubb, G.	Pte.	Nthd. Fus.	Rotherham	1918	Poole, R.	Cpl.	R.E.	Stirling	1916
Kavanagh, M.	Pte.	Manchester	Shifdon	1918	Popple, B.	Pte.	R.F.	Leicester	1914
Kemp, L. A.	2nd-Lt.	L.N.L.R.	St. Albans	1918	Porter, J. E.	Pte.	Nthd. Fus.	Keith	1917
Kerr, J. B.	Bdr.	R.G.A.	Rothes	1918	Potter, F.	L.-Cpl.	E. Yorks.	Hull	1918
Kidman, C. R.	Cpl.	M.G.C.	Colchester	1917	Pratt, H. R.	Cpl.	R.E.	—	1915
King, H. E.	Cycl.	A.C.C.	Swindon	1917	Prebble, J.	Lieut.	R.F.A.	Chislehurst	1917
King, T. W.	Sgt.	R.A.M.C.	Manchester	1918	Preece, H. W.	Rtmn.	D.L.I.	London	1917
King, W. A.	Pte.	Black Watch	Belfast	1916	Preston, M.	Pte.	Sheffield	Sheffield	1918
Kinhead, A. H.	Rifm.	R.I.R.	Belfast	1918	Price, R.	Pte.	K.S.L.I.	Shrewsbury	1918
Knight, E. T.	Rifm.	Rif. Bdg.	Chatham	1917	Pugh, R. G.	Lieut.	Sh. L. I.	Esher	1916
Laming, F.	Pte.	R.A.M.C.	E. Molesey	1916	Pyper, G.	Pte.	Gordons	Aberdeen	1917
Larcombe, A. L.	Sgt.	Som. L.I.	Chard	1917	Rainbird, N.	L.-Cpl.	W.R.R.	Huddersfield	1916
Leadbeater, A.	L.-Cpl.	Yorks	Scarborough	1916	Ramsbottom, J.	L.-Cpl.	Lancs. Fus.	Bury (L.)	1917
Lee, A.	Lieut.	Shr. L.I.	Whitchurch	1916	Rees, E. B.	Pte.	Pte.	Barry Docks	1918
Lee, H.	Pte.	Y. & L.R.	Shipley	1918	Regan, J. H.	Lt.	Nthd. Fus.	Blackburn	1918
Lee, —	Lieut.	—	Whitchurch	1916	Rennie, —	L.-Cpl.	A & S. H.	Arbroath	1916
Leeff, H.	Cpl.	Yorks	Scarborough	1916	Reynolds, A.	L.-Cpl.	Queen's.	Redhill	1917
Leitch, W.	Rifm.	R.I.R.	Belfast	1916	Reynolds, A. S.	2nd-Lt.	D.C.L.I.	Devonport	1918
Lewthwaite, W. S.	Gnr.	R.F.A.	Port St. Mary	1917	Richards, R. A.	Pte.	K.L.R.	Southport	1916
Ling, F. W.	Capt.	R. Fus.	London	1917	Richards, R. I.	2nd-Lt.	London	Blandford	1917
Longton, J. H.	Pte.	R.L.R.	Lancaster	1917	Richey, R. A.	2nd-Lt.	R.I. Fus.	Belfast	1918
Lord, R.	L.-Cpl.	Londou	Bury (L.)	1917	Riddoch, G. D.	Pte.	Gordons	Cults	1918
Louden, W. T.	Pte.	Scots Fus.	Dunfermline	1916	Roberts, L.	Pte.	K.S.L.I.	Oswestry	1915
Loveluck, C. A.	Lieut.	R.W.F.	Aberavon	1918	Roberts, R. H.	Pte.	R.A.M.C.	Leeds	1918
Lunan, G. H.	Lieut., M.B., Ch.B.	R.A.M.C.	Edinburgh	1915	Robertshaw, H.	Pte.	Irish Gds.	Manchester	1918
Lyttle, T. F.	Sgt., D.C.M.	—	Belfast	1918	Robertshaw, J. E.	Pte.	W. Yorks.	Leeds	1916
McCahy, C.	Pte.	R. Fus.	Carlisle	1917	Robertson, J.	Pte.	K.O.S.B.	Perth	1916
McCormick, H. M.	2nd-Lt.	Munster Fus.	Castleconnell	1917	Robertson, B.	Rifm.	Rife Bdg.	Bishop's Castle	1917
McCraw, G.	Cpl.	A. & S. H.	Leith	1917	Robertson, R. W.	Capt.	R.M. Fus.	London	1915
Macdonald, —	Cpl.	Gordons	Blyth	1918	Robinson, T.	Lieut.	R. Fus.	London	1918
McDonald, H.	2nd-Lt.	R.A.F.	Sunderland	1918	Roddick, T.	Cpl.	Camerons	Lockerbier	1916
McDonald, J. S.	Pte.	—	Aberdeen	1918	Rogers, F. A.	Cpl.	London	London	1916
McFarlane, P.	Pte.	R. Scots	Edinburgh	1917	Ross, R. E.	Pte.	R. Scots	N. Berwick	1918
					Rudkin, S.	Pte.	R.A.M.C.	Torouay	1916
							—	Crook	1918

Name	Military or Naval rank and other titles	Regt.	Place with which connected	Year of Death
Sage, D. A. ...	Rfmn.	R. —	Lostwithiel	1918
Sandison, B. ...	Pte. ...	R. Scots ...	Edinburgh	1917
Sangster, C. W. ...	L.-Cpl. ...	Mdxs. ...	Slough	1918
Seals, J. ...	Sgt. ...	A. & S. H.	Berwick-on-Tweed	1917
Sears, G. ...	Pte. ...	K.R.R.C.	Grantham	1917
Seaston, A. ...	L.-Cpl. ...	K.O.Y.L.I.	Tibshelf	1916
Senior, J. A. ...	Trooper	Yeomanry	Eastbourne	1915
Sharp, S. H. ...	Pte. ...	M.G.C. ...	Aylesbury	1918
Sheriffs, G. ...	Opl. ...	Gordons ...	Aberdeen	1918
Sherrington, W. ...	Pte. ...	S. Lancs	London	1914
Shirreffs, R. ...	Pte. ...	R.A.M.C. ...	Elgin	1916
Simpson, E. W. ...	Pte. ...	—	Aberdeen	1916
Sinclair, A. ...	Pte. ...	Gordons ...	Lerwick	1917
Skelton, F. ...	Pte. ...	W. Yorks	Harrogate	1917
Slack, L. ...	Seaman	R.N.D. ...	Doncaster	1916
Smith, B. ...	Pte. ...	K.L.R. ...	Southport	1915
Smith, T. R. ...	2nd-Lt.	Camel C. ...	Newark	1918
Smith, W. ...	Opl.	R.F.C. ...	Eccles	1916
Southon, J. E. ...	2nd-Lt.	London	London	1917
Spencer, H. ...	Sgt. ...	K.L.R. ...	Liverpool	1917
Spreckley, A. ...	Bdr. ...	R.F.A. ...	Melton Mowbray	1918
Stead, E. ...	Pte. ...	Lancs. Fus.	Ashton-u.-L.	1917
Stewart, J. ...	Sgnrl. ...	A. & S.H. ...	Paisley	1916
Stewart, J. P. ...	Pte. ...	Gordons ...	Stonehaven	1916
Stewart, W. ...	Sgt. ...	R.A.M.C. ...	Belfast	1918
Stiles, E. W. ...	Lieut. ...	Nthd. Fus.	Doncaster	1918
Stuart, C. E. ...	Pte. ...	Camerons	Glasgow	1916
Sudlow, H. S. ...	2nd-Lt.	Worcesters	Malvern	1918
Sugden, R. ...	Pte. ...	D.L.I. ...	Spennymoor	1917
Surcliffe, W. H. ...	Pte. ...	E. Lancs.	Burnley	1917
Suttle, H. ...	A.-M. ...	R.A.F. ...	Sheffield	1918
Sutton, H. L. ...	2nd-Lt.	R.A.F. ...	Southport	1918
Tallentire, F. ...	Pte. ...	R.A.M.C. ...	Whitbchen	1918
Tatum, R. W. ...	L.-Cpl. ...	Nthd. Fus.	Nelson	1918
Taylor, R. F. ...	2nd-Lt.	Gloucesters	Morecambe	1918
Taylor, Wm. ...	Pte. ...	E. Lancs.	Darwen	1915
Taylor, Wm. ...	Pte. ...	—	Ashton-u.-L.	1918
Tees, P. M. ...	L.-Cpl. ...	R. I. Reg.	Belfast	1918
Tharratt, G. V. ...	Lieut. ...	K.L.R. ...	Liverpool	1915
Theckston, J. ...	Pte. ...	K.L.R. ...	New Brighton	1915
Thomas, H. I. ...	Pte. ...	S. W. Bord.	Ebbw Vale	1917
Thomas, T. W. ...	L.-Cpl. ...	R.M.F. ...	Cardiff	1916
Thomas, W. ...	2nd-Lt.	E. Lancs.	Garstang	1918
Thompson, A. M. ...	Lieut. ...	R. Fus. ...	Nottingham	1915
Thompson, C. W. ...	Rfmn.	K.R.R.C. ...	Easingwold	1916
Thompson, F. ...	L.-Cpl. ...	Manchester	Manchester	1915
Timms, W. F. ...	Pte. ...	Rifl. Bdg.	Northampton	1918
Tong, H. ...	L.-Cpl. ...	Wilts. ...	Winchester	1917
Trattles, W. ...	Pte. ...	D.L.I. ...	Whitby	1918
Tucker, A. ...	Pte. ...	London	London	1917
Tulley, J. R. ...	Sub-Lt.	R.N.A.S. ...	London	1917
Turmer, A. N. ...	Opl. ...	R. I. Reg.	Carrik-on-Suir	1918
Turner, T. ...	Sgnrl. ...	K.L.R. ...	Blackpool	1918
Turtisbury, W. H. ...	Par. ...	R.E. ...	Hadleigh (E.)	1917
Uffindell, H. C. ...	Pte. ...	Bedfords...	Oroydon	1917
Venables, H. ...	Pte. ...	Gnr. ...	London	1917
Verity, H. ...	Gnr. ...	R.G.A. ...	Bradford	1918
Wade, J. ...	W.-Tgst.	R.N.R. ...	Manchester	1917
Walkden, H. O. ...	Pte. ...	R.A.M.C. ...	Blackpool	1918
Walker, J. ...	L.-Cpl. ...	Manchester	Burnley	1918
Walker, W. ...	Pte. ...	H.L.I. ...	N. Berwick	1918
Wallace, W. ...	Gnr. ...	R.F.A. ...	Edinburgh	1917
Wallsgrave, J. F. ...	Pte. ...	Bletchley	Dublin	1916
Walsh, M. O. ...	2nd-Lt.	K.O.Y.L.I. ...	Dublin	1917
Ward, A. W. ...	Pte. ...	Devons ...	Burton-on-Trent	1918
Warner, A. F. ...	Pte. ...	M.G.O. ...	Wolverhampton	1916
Waterhouse, A. ...	L.-Cpl. ...	K.O.Y.L.I. ...	London	1916
Webber, A. ...	Pte. ...	—	Boston	1916
Webber, H. A. ...	Pte. ...	—	Rath	1917
Weir, A. J. S. ...	Pte. ...	Osheshire ...	Kamnay	1918
Wells, A. W. ...	Pte. ...	S. Staffs.	Coalville	1916
Weston, J. F. ...	Pte. ...	K.R.R.C. ...	Leicester	1916
Weston, S. G. ...	Pte. ...	—	Runcorn	1915
Weston, W. ...	Pte. ...	Lancs. Fus.	Bolton	1916
Whitaker, A. W. ...	L.-Cpl. ...	Leicesters	Loughborough	1916
Whitaker, R. ...	Pte. ...	Manchester	St. Helens	1918
White, C. O. ...	Pte. ...	—	Wakefield	1915
Wilkins, H. J. ...	Pte. ...	R. Berks.	Reading	1916
Wilkinson, J. P. ...	Pte. ...	—	Wigton	1918
Willcock, N. ...	2nd-Lt.	—	Wolverhampton	1916
Williams, D. R. ...	Pte. ...	R.A.M.C. ...	Pennaenmawr	1917
Wilson, O. R. ...	Sgt. ...	K.R.R.O. ...	Lincoln	1916
Wilson, G. ...	Pte. ...	Rifl. Bdg.	Aspatria	1918
Winter, W. ...	Pte. ...	K.O.S.B. ...	—	1915
Woods, W. E. ...	Pte. ...	Douglas (L.M.)	Douglas	1918
Wright, A. L. ...	Pte. ...	—	Burton-on-Trent	1916
Wright, F. S. ...	Pte. ...	—	Huddersfield	1916
Young, Wm. ...	L.-Cpl. ...	BlackWatch	Tayport	1918
Young, Wm. ...	Drv. ...	R.H.A. ...	Edinburgh	1918

INDIAN BELLADONNA.—Arrangements are being made to cultivate belladonna on a considerable scale at Mungpoo.

THE BAYER CO. INC., the largest of enemy owned or controlled chemical and colour industries in the United States, was sold by public auction on December 12 by the Alien Property Custodian for \$5,310,000, the buyers being the Sterling Products Co., of Wheeling, West Virginia.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Sheffield.—The Insurance Committee met on January 8, when it was decided that the dispensing hours shall be the same as in 1918. It was agreed to support the application of the Pharmaceutical Committee for the release from military service of a number of assistants. The Clerk reported that the influenza epidemic in June and July had resulted in an increase in the number of scripts dispensed from 56,977 in 1917 to 91,997 for 1918, or 61.46 per cent.; while the recrudescence in October and November raised the total of scripts from 58,697 in the two months of 1917 to 86,533 for the corresponding period of 1918, equivalent to 47.4 per cent. The North-East Midlands Pricing Bureau wrote that the estimate of 19s. 11d. per thousand as the cost of pricing prescriptions would have to be raised to 1l. 1s., and it was decided to make a payment of 11l. 10s. on account. Payments to chemists were also ordered to the total of 1,258l. 10s. 6d.

Stowmarket.—The East Suffolk Pharmaceutical Committee has sent a protest to the Insurance Committee regarding the treatment that has been accorded to the Stowmarket chemists. It appears that the chemists proposed, with the consent of the local doctors, to close at 6.30 on Monday, Tuesday, Wednesday, and Friday, and at 7 on Saturday, during the winter. The hours on Thursday (early-closing day) and Sunday are 6 to 6.30 for Insurance patients. The earlier closing was decided upon owing to the restrictions imposed by the Coal and Lighting Order. This would give a 50½-hour service per week. The Insurance Committee would not, however, consent to any alteration of hours, the chemists' hours at Ipswich (7 or 7.30 each night except Friday and Saturday when the closing hours are 8 and 8.30 respectively) being given as a model. The Stowmarket chemists were informed that they must exhibit notices in their shops that drugs could be obtained at the side door up to 7.30 P.M. This undertaking the chemists declined to give, and having stated the hours which they had decided to give, intimated that they would withdraw from the panel if the Committee did not agree. The Insurance Committee thereupon sought to interview the chemists at a most inconvenient time—the afternoon of December 23. The chemists suggested that December 30 or January 1 would be more suitable. The Insurance Committee would not agree to alternative dates, adding in the same letter, "and have therefore accepted your resignation from the panel." The East Suffolk Pharmaceutical Committee have sent a protest to the Insurance Committee, and remind the Committee that the Pharmaceutical Committee should have been consulted upon this matter. [We think the contention of the Pharmaceutical Committee is correct. —ED.]

Bankruptcy Report.

Re Harry Saville Thorne. Selby, described as a chemist.—The debtor failed to put in an appearance at the York Bankruptcy Court on January 3 for his public examination (see *C. & D.*, July 20, 1918, p. 37, and July 27, p. 37). The examination was adjourned *sine die*.

Gazette.

Partnerships Dissolved.

CLARKE, A. L., SMITH, W., and SMITH, J. B., Idol Lane House, 40 Eastcheap, London, merchants and commission agents, under the style of Clarke & Smith, so far as concerns A. L. Clarke.
FABER, E., and WEBB, E. H., 60 Mark Lane, London, E.C., merchants, under the style of August Faber & Co.
WHITE, J. R. T., and HORSFALL, H., 77 Leeds Road, Bradford, dye and chemical merchants and agents, under the style of J. R. White & Co.

Quinine Scarcity in Spain.—Protests are being made in the various parts of Spain, especially in Extremadura, at the scarcity and excessive price of quinine.

Pharmacy Conditions in Australasia.

SEVERAL inquiries having reached us from prospective emigrants as to the conditions of pharmacy in Australia and New Zealand, it will be useful to give the following résumé of the conditions which was prepared for us by the editor of "The Chemist and Druggist of Australasia":

(1) Holders of a British certificate of chemist and druggist or pharmaceutical chemist can be registered without examination, on application and paying the fee, in each of the Australian States and in New Zealand.

(2) The certificate of pharmaceutical chemist of the Pharmaceutical Society of Ireland is a qualification for registration. The Pharmaceutical Society of Ireland under its Act has no power to admit to registration without examination any pharmacist from Australia or New Zealand. Nevertheless the certificate of the Society is recognised as a qualification for registration in every State except South Australia, where so far no application for its recognition has been received.

The law in each one of the States and in New Zealand is very strict. If one or other of these qualifications is not held, the Pharmacy Board has no power to relax any of the provisions of the Act. This means apprenticeship for three years in New South Wales and Queensland, and four years in the other States. In New South Wales the apprenticeship must be served in the State; in Western Australia it may be served in any State of the Commonwealth or New Zealand. In the other States apprenticeship to a pharmacist entitled to registration within the State would be accepted on due legal proof being given. A Preliminary examination must be passed before apprenticeship. During the last year of the apprenticeship in Victoria and New South Wales a compulsory curriculum must be undertaken at the College of Pharmacy in Melbourne or at the University in Sydney. In South Australia courses of study are provided at the University, in Queensland at the Brisbane College of Pharmacy, in Western Australia at the Perth Technical College; and in practice, even where it is not compulsory, this course is always taken. An examination known as the Intermediate examination must be passed in chemistry, botany, *materia medica*, and, in Western Australia, in pharmacy. After the Intermediate examination has been passed the candidate may sit for the Final or Qualifying examination, which in each State is conducted by the Pharmacy Board and covers all the more practical aspects of pharmacy. The few men who are in a position to estimate the relative characters of the examinations say that the Australian examinations are at least as good as those of the Pharmaceutical Society of Great Britain.

Unregistered persons with experience of the drug-trade or of pharmacy will find it as difficult to secure registration in Australia as in Britain, and they are strongly advised not to attempt to come to Australia until they have qualified at home. The population of Australia has been slowly growing, but the number of pharmacists qualified in Australia has so far been able to overtake practically all the available openings, and the number of pharmacies has been slowly growing. It is true that the number of apprentices available has not been large in recent years, but an increasing number of women are taking up the calling of pharmacy. A large number of the Australian pharmaceutical assistants and apprentices and of employers themselves have enlisted, and when they return it is likely that they will fill up all the immediately available openings. Should immigration cause a rapid increase in population at any time, the number of available openings will increase. But it is not in this direction that Australia specially needs population; it is men who are experts in agriculture who are needed to increase the production of the Commonwealth. The conditions are nearly always harder than those which were experienced when the prairies of the United States were converted into wheat-growing areas. Australia has no great territory which needs only the plough to convert it into smiling cornfields.

In New South Wales, Queensland, South Australia, some parts of New Zealand, and in Victoria Wages Boards have fixed the minimum wages for apprentices, unregistered assistants, and registered assistants. The wage for a registered assistant is as follows:

New South Wales, 3*l.* 16s. 6d.; Auckland, N.Z., 4*l.* 5s.; Christchurch, N.Z., 4*l.* 5s.; Queensland, 3*l.* 10s. 8d.; South Australia, over twenty-three years of age 4*l.*, under twenty-three 3*l.* 15s. It must be remembered that nearly all prices are higher than those in Britain, even in normal times.

It is stated on excellent authority that no registered pharmacist need reach the age of thirty in Australia without owning a business of his own. If he fails, something is defective in his character. But the population of the whole of Australia is less than that of London, and half of it is concentrated in the capital cities. This concentration is probably not greater than that in the urban areas of Great Britain, but it means that the opportunities for establishing successful new pharmacies outside the cities and suburbs are not numerous.

Up to the beginning of the war a steady trickle of qualified assistants from the United Kingdom reached Australia, and all were quickly absorbed. It seems highly probable, however, that if the stream very largely increased without a corresponding increase in population, the later comers would suffer considerable hardship or have to leave their chosen calling. While it is not desired to discourage the immigration of suitable men, they must come prepared to work as hard as they did in the Old Country. The conditions in pharmacy in some respects no doubt are easier, and every man here feels that he is more important than he does in the United Kingdom. But it would be cruel and unwise to say anything which would stimulate indiscriminate immigration. Anyone who comes to Australia should be careful to bring sound credentials. If neither he nor his relatives know anyone in Australia, then he should get statements from some of the wholesale houses represented here. No number of testimonials from persons unknown in Australia will carry any weight, but a statement from a well-known British wholesale house that "one of their old customers, Mr. Blank, has written to them that the bearer intends to visit Australia, and is a pharmacist of good qualifications and sound character, and that they have every confidence in Mr. Blank's judgment," would be a testimonial that would carry weight and worth having. Anyone who gives introductions to residents in Australia should be careful to write by a separate post to the addressee of the introduction, giving a frank statement of all he knows about the introducee and how he knows it. He owes as much as this to his correspondent, and by writing in this way he will give real help to all concerned. Anyone coming to Australia should promptly get in touch with the Secretary of the Pharmaceutical Society in the State he visits. He will find the Y.M.C.A. in each capital a centre where he can obtain all sorts of information, including reliable addresses for board and residence. At the Melbourne and Sydney offices of "The Chemist and Druggist of Australasia" newcomers are freely given what information is available.

Practical Notes and Formulas.

Carbon Tetrachloride.

To be reasonably safe from fire risk, 55° naphtha should contain at least 30 per cent., 65° naphtha at least 45 per cent., 70° naphtha at least 50 per cent., and 76° naphtha at least 70 per cent. of carbon tetrachloride. As these mixtures will burn if spread on readily combustible material, their use is recommended only when pure carbon tetrachloride cannot be used. ("Drugs, Oils, and Paints," 33, 441-2.)

Nicotine Oleate as an Insecticide.

NICOTINE oleate is recommended by Moore ("Journ. Econ. Entomology," 11, 341-2) as a contact insecticide. It is soluble in soft water, forming a soapy solution, and non-volatile. It can be prepared from any nicotine preparation containing free nicotine and commercial oleic acid; $\frac{1}{2}$ parts of a 40-per-cent. solution of nicotine combine with $\frac{1}{3}$ parts of commercial oleic acid. A nicotine oleate solution containing 1 part of nicotine in 100 parts of water did not injure tomatoes or coleus, but caused slight injury to tender leaves of greenhouse roses.

Uses of *p*-Dichlorobenzene.

KONANTZ ("Amer. Journ. Pharm." 90, 340-2) suggests the use of *p*-dichlorobenzene (p -Cl₂C₆H₄) as a substitute for naphthalene. Dissolved in benzene, or in any other suitable solvent, it may be applied as a spray to woodwork, clothing, etc., as an effective insecticide, the action extending to the eggs and larvae. It may also prove useful against vermin on animals and birds, and as a spray for plants; its insecticidal and antiseptic properties might be investigated in the treatment of certain skin-diseases. It is soluble in carbon tetrachloride, alcohol, ether, chloroform, and benzol, and can be easily incorporated in lard or vaseline by simply stirring it into the melted base.

Medical Gleanings.

Scopolamine-solution.

STRAUB ("Bull. Chim. Farm." 56, 170) recommends the addition of a polyatomic alcohol as a means of rendering solutions of scopolamine stable, and gives the following formula:

Scopolamine hydrobromide	0.2 gram
Mannitol	100 grams
Distilled water	1,000 grams
Sterilise.	

Treatment of Scabies.

DR. G. H. FOORT, Southampton, describes in the "British Medical Journal" (II., 1917, p. 425) a "quick, simple, and cheap" method of treating scabies. The morning the patient is seen he is rubbed all over with an ointment, 2 dr. sulphur in 10 dr. vaseline. He then puts on his infected clothes and wears them for twenty-four hours, and thereafter he has a hot bath with plenty of soap. When dry he puts on clean clothes and returns to his ordinary duties. This treatment was very effective, and prevented the spread of the disease among messmates.

Soothing-ointment.

For the treatment of burns, chilblains, ulcerations, conusions, abrasions, and in general all painful wounds, Jaudon ("Repert. Pharm." 29, 40-3) recommends the use of the following ointment:

Lanolin	20 grams
Purified, yellow wax	20 grams
Olive oil	120 grams
Camphor	10 grams
Salol	10 grams
Menthol	5 grams
Rose and cherry laurel water, each	60 grams
Borax	5 grams

Vaseline Pads.

VASELINE PADS give the best protection against dermatitis caused by the use of Dakin's solution. The pads are prepared as follows: Cheesecloth, with twenty-four threads to the inch, gives the best results. This is cut in strips 6 in. by 4 in., one end turned up, and, in sets of twenty, dipped into hot vaseline. The surplus vaseline is drained off, and the strips are placed neatly in layers, in a tin box with a perforated lid. This is repeated until the box is full, when the box is pinned up in a towel, and sterilised in the operating-room. The resulting pads are thoroughly impregnated, and adhere perfectly to the skin, allowing no Dakin solution to penetrate.—*British Medical Journal* (I., 1918, p. 170).

Intravenous Injection of Quinine in Malaria.

THE "British Medical Journal" (II., 1917, p. 381) contains an article by Professor Sir Leonard Rogers, Calcutta, in which he advocates the intravenous route for the administration of quinine in severe cases of malaria. The paper contains a record of experiments to determine the effects on the blood and the toxicity of the more common salts of quinine and cinchonine. The results are that 10-per-cent. solutions of quinine may be given intravenously without any ill effect on the blood-serum, while 11 gr. of the acid hydrochloride of quinine or 16 gr. of the acid hydrobromide may safely be given once daily for at least four days. The hydrobromide is found not to produce as much dizziness as the hydrochloride. It will probably be desirable to supplement the intravenous doses with quinine by the mouth, as the former are likely to be more rapidly excreted through the kidneys.

The Inhibitory Action of Lactic Acid on Bacterial Growth.

THE "Journal of Infectious Diseases" (September 1917) contains a report by Effie L. Macdonald, from the Department of Experimental Medicine, University of Illinois, on the inhibitory action of lactic acid on certain bacteria and fungi. In the majority of cases—twenty-four out of thirty-one organisms—growth was inhibited with less than 1 per cent. of lactic acid. The following percentages show the effect on some of the commoner organisms: *B. diphtheriae*, inhibited by 0.1 per cent. acid; *B. typhosus*, 0.2; *B. paratyphosus*, 0.3; *staphylococci*, 0.3 and 0.4; *B. coli*, 0.4; *B. tuberculosis*, 0.5; *streptococci* (average), 0.6 per cent. The higher organisms were more resistant—actinomycetes requiring 2.5 per cent.; *spirothrix*, 2.8; *blastomycetes*, 2.9; *Mucor mucedo*, 7.6; and *Aspergillus flavus*, 8.6 per cent. This research goes some way in placing on a scientific basis the theory as to the value of sour milk as an article of diet.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Detection of Methylene Blue in Urine.—The urine to be tested is acidified with acetic acid, fragments of thymol are added, and the mixture is boiled. The thymol collects on the surface, carrying with it the pigment. (Tribondeau, "Comp. rend. soc. biol." 1917, 80, 882.)

Estimation of Benzaldehyde.—According to Geiger ("Jour. Amer. Chem. Soc." 1918, 40, 1453), benzaldehyde, in the presence of benzoic acid, may be estimated as follows: Solutions containing not more than 0.5 gram of benzaldehyde and benzoic acid are made distinctly alkaline with sodium hydroxide, and extracted with three successive portions of ether (25 c.c. each). The combined ethereal extracts are treated with 1.5 gram of freshly distilled phenylhydrazine and 10 c.c. of a solution of acetic acid in ether (10 per cent.). The solution is evaporated in a current of air, the residue mixed with water, and the insoluble benzylidene phenylhydrazone collected in a tared Gooch crucible, dried for two hours at 70° in vacuo and weighed.

Melting-point of Atropine Sulphate.—Atropine sulphate readily takes up a small quantity of water, and the presence of moisture considerably lowers the melting-point. Richmond ("Analyst" 43, 168) states that the low figures reported are probably due to too rapid heating in making the determination. If the atropine sulphate is immersed in a bath only a few degrees below the melting-point, the water is driven off rapidly, causing the salt to sinter together and appear to melt, thereby giving rise to errors as to the melting-point. This error can be obviated by beginning to heat 25°-30° below the melting-point, so that the moisture present is driven off very gradually without causing an appearance of melting. The author states that the correct melting-point of atropine sulphate is 194°, when dried at 100°, as given in Allen's "Commercial Organic Analysis," vol. vi., p. 196.

Bulbs as Cattle-food.—The over-production of flower-bulbs and scarcity of the usual cattle-foods in Holland induced Ezendam ("Pharm. Weekbl." 55, 494-504) to study the effects of tulip, crocus, hyacinth, narcissus, and gladiolus bulbs on cattle. The chemical composition of these bulbs closely resembles that of potatoes, but usually they contain less water, while their starch value is generally higher. Some cases of poisoning were traced to the use of narcissus bulbs, due to the presence of the alkaloid narcitine, while they sometimes displayed an emetic action. Hyacinth bulbs were given boiled to cattle and raw to pigs. Tulip and crocus bulbs are readily taken by domestic animals, especially pigs; the small amount of saponin present may be extracted by treating with boiling water, but even in the raw state they proved to be harmless. No harmful effects were ever observed from feeding on gladiolus bulbs.

Homatropine and the Vitali Test.—The B.P. and U.S.P. give the Vitali test as a means of distinguishing homatropine from atropine, hyoscyamine, and hyoscine. As the hydrobromide is the only official salt, this test might be presumed to be applicable to other salts of homatropine. If 0.01 gram of homatropine sulphate is evaporated with 5 drops of nitric acid to dryness and a few drops of alcoholic solution of potassium hydroxide are added to the residue, a distinct violet colour is obtained, and the same is produced in the Vitali test when an equivalent amount of sulphuric acid is added to the homatropine hydrobromide, or hydrochloride. If the alkaloid is separated from the homatropine sulphate and the test applied, no violet coloration is produced. Richmond ("Analyst" 43, 167-8) therefore suggests that homatropine can only be positively distinguished by applying the test to the extracted alkaloid.

Oil of Pycanthemum lanceolatum, Pursh.—E. R. Miller (Univ. Wis., Circ. 2, April 1918) found that this oil contained carvacrol, pulegone, geraniol, dipentene, and at least one other terpene, probably two; also a ketone other than pulegone, probably thujone. The oil obtained from young plants carries as great a carvacrol-content as does that from fully-matured plants, but the oil from young plants yields a much smaller percentage of ketone than does that of fully-matured specimens. After reaching a maximum, the percentage of ketone diminishes as the age of the plant increases. The samples of oil analysed by the author showed a content of carvacrol varying from 14.5 per cent. to 58 per cent., most of them having 25 per cent. or more. (Correll reported a content of only 7.2-9 per cent.) The percentage of ketone present varied considerably; the lowest was 3 and the highest 40 per cent. One sample showed a terpene-value of about 20 per cent.

Trade Report.

42 Cannon Street, E.C. 4, January 9, 3 p.m.

THERE is almost a complete absence of business in the chemical, drug, and produce markets, and buyers are ordering as little as possible until the situation is clearer, while practically no ordering is being done by dealers for forward delivery. Dulness is looked for at this period of the year, but on this occasion it is accentuated owing to the uncertain European outlook. A redeeming feature in the situation is the abnormal activity in the wholesale export trade, the facilities for doing which have been much improved by the more liberal granting of licences. This should help to relieve the situation, and buyers must remember that everybody is working almost entirely on present stocks, which are being depleted, and it is not at all unlikely that in a month or two, when business gets into its stride, that the shortage will be felt in certain items. Although larger imports of general produce are taking place, the bulk consists of foodstuffs, including heavy quantities of fruits (oranges and lemons), almonds, honey, lime-juice, albumen, and dried-egg products, but very few crude drugs and chemicals. In the comparative absence of business it is difficult in many instances to give actual selling prices, as sellers' and buyers' ideas of values are wide apart. Products like aspirin, guaiacol carbonate, and phenacetin are showing a sagging tendency owing to the stagnation. Vanillin and saccharin are lower. Benzonaphthol and methyl salicylate are all offered in buyers' favour. Glycerophosphate of lime is rather dearer. Methylated ethers have been advanced 1d. Among drugs, buyers are awaiting the next week's auctions, when fair supplies are expected to be offered. New Irish-grown henbane, belladonna root and leaves are offered at reasonable prices. Italian orris, calumba, and camphor oil are easier on the spot. All spices are weak and lower in several instances. Nutmegs and mace were lower at auction; white pepper is also cheaper; ginger, arrowroot, chillies, and cinnamon were bought in at auction. Canary-seed is easier, and fenugreek is cheaper; dill is nominal and cumin slow.

Higher	Firmer	Easier	Lower
Ethers (methylated). Glycerophosphate, lime	Peppermint oil	Acetanilide Benzoic acid Benzonaphthol Cadmium Calumba Camphor oil Canary-seed Cloves Copper sulphate Cream of tartar Orris Phenolphthalein Salol Shellac Soda benzoate	Arrowroot Cassia lignea Farina Fenugreek-seed Mace Methyl salicylate Mirbane oil Nutmegs Pepper, white Pepsin Saccharin Terpineol Vanillin Wax, veget. (Jap.)

Cablegram.

NEW YORK, January 8.—Business is fair. Menthol is 25s. per lb. lower at \$6.75. Belladonna-root is also lower at \$1.75. Potash iodide has been reduced to \$3.50. Cascara sagrada is steady at 19c. per lb.

Syrup, Glucose, and Molasses.

The Syrup, Glucose, and Molasses (Prices) Order, 1918, has now been amended to allow persons who buy molasses from persons other than manufacturers or importers to sell it at 45s. per cwt., plus 3 per cent.

ACETANILIDE.—Sales are extremely small, and the price has eased down to 4s. 3d. to 4s. per lb.

ACETIC ACID.—Considerable difficulty is experienced in obtaining freight from the U.S.A. for this month, and it cannot be said at the moment what prices will be realised when supplies do come forward. At the prices indicated last week limited quantities can be bought, but it is doubtful whether shipment can be effected before February.

ALMONDS.—Good-sized quantities have arrived at London and Liverpool from Spain (see list of arrivals).

ANISE is unchanged at 80s. per cwt. for Russian and 110s. to 120s. for Spanish.

ANISE OIL, STAR.—Very slow of sale at 6s. for "Red Ship" on the spot, and 5s. 9d. c.i.f.

ANTIMONY continues very dull. Consumers, of course, are fully aware of the fact that there is a large amount of material awaiting disposal, and therefore see no inducement to replenish their stocks, preferring to buy from hand to mouth. The recent deep cut made in home refined to 53*l.* per ton has thus quite failed to stimulate demand. A further sagging market is generally looked for, while parcels of foreign refined could be bought at 53*l.*, if not less. It is still virtually impossible to ascertain the figure at which crude could be liquidated. Home refiners are believed to hold fair quantities of the latter.

ARROWROOT.—At auction 286 barrels St. Vincent common to dull fair were bought in at 10*d.* to 1*s.*

ARSENIC is quiet, offers not being unduly pressed, but buyers operate from hand to mouth, business being possible at 90*s.* per ton, delivered London, for best Cornish powder. The output in the British Colonies was considerably increased within the past year. The initial output in Rhodesia, where operations started nearly a year ago, was 14 tons a month; it has been since raised to close upon 100 tons a month. The process of extraction has proved very successful, and high-grade material running about 99 per cent. is being secured. The product is being utilised for export for making arsenite of soda, but it is intended to use it locally for sheep-dips. South African resources are said to be ample enough to meet all local requirements for many years if the manufacture of sheep-dips and arsenite of soda is taken in hand.

ASPIRIN.—Supplies are arriving from America, which will relieve the spot scarcity, and incidentally affect the price; from 16*s.* to 15*s.* 6*d.* can be obtained for parcels for delivery ex stock now landing; to arrive a small business has been done at 14*s.* 6*d.*

AUBEPINE is easier at 52*s.* per lb.

BELLADONNA.—Irish-grown root is offered at from 4*s.* to 4*s.* 3*d.*, and belladonna-leaves testing .35 at 3*s.* 6*d.* per lb.

BENZOIC ACID ex toluol for January delivery is easier at from 19*s.* to 18*s.* 6*d.* on the spot.

BENZOIN.—The London stock at the end of the year was 1,553 packages, against 439, which is a decided improvement. The landings during 1918 were 2,045, against 801, and the deliveries 931, against 1,668 packages.

BENZONAPHTHOL is rather easier, and sales have been made at 35*s.* per lb.

BERGAMOT OIL.—For January-February shipment 38-per-cent. esters is quoted at 25*s.* per lb. c.i.f.

BROMIDES.—The demand is surprisingly small, and one is prompted to believe that druggists are allowing their stocks to run down before replenishing. Prices are nominally unchanged, with sellers at 2*d.* to 3*d.* below the regular prices.

CADMIUM.—The demand is slow and the price is inclined to sag, with sellers at 8*s.* 6*d.* per lb., if not less. Owing to the cessation of Government purchases, more is obviously available for other purposes.

CAFFINE.—English makers quote pure crystals at 50*s.* per lb., and can give prompt delivery or book forward contracts; dealers quote at 45*s.* to 46*s.* per lb.

CALUMBA is easier, with sellers of fair sorts at 320*s.* per ewt. on the spot. The London stock at the end of the year was 1,042 bags, against 264 bags; the landings during 1918 were 1,450 bags, against 941, and the deliveries during 1918 were 672, against 1,002.

CAMPHOR OIL is about 5*s.* cheaper, with sellers of white essential Japanese at 150*s.* per cwt. on the spot.

CAMPHOR (REFINED) remains quiet, with sellers of Japanese 2*½*-lb. slabs at 6*s.* 9*d.* and $\frac{1}{2}$ -oz. tablets at 7*s.* 9*d.* on the spot.

CANARY-SEED.—Only small sales are taking place at slightly easier prices, ordinary to good quality being quoted nominally 290*s.* to 310*s.* per quarter.

CAPSICUMS.—At auction 46 bales Nyasaland were bought in at 80*s.* for good red picked.

CARAWAY-SEED.—Good quality Tunis is offering at 230*s.* per cwt.

CASCARA SAGRADA.—The stock at the end of the year was 23 tons, against 48 tons in 1917; while the landings for the year were 33 tons, against 36 tons; while the deliveries for the year were 75 tons, against 135 tons.

CHAMOMILES.—Fair white French offer at 295*s.* on the spot.

CHILLIES.—At auction 13 bags Nyasaland were retired at 85*s.*, and 208 bags Sierra Leone were bought in at 80*s.* to 85*s.*

CHLORAL HYDRATE is unchanged, but the export demand should improve, as nothing has been shipped for a lengthy period.

CITRIC ACID.—Holders show a tendency to reduce their stocks, and 4*s.* 8*d.* to 4*s.* 9*d.* has been accepted for small lots.

CLOVES are 1*d.* cheaper, fair Zanzibar offering on the spot at 1*s.* 9*d.*

CODEINE is firm at 30s. per oz. for pure crystals and 26s. for salts.

COD-LIVER OIL.—Non-freezing Newfoundland is offered at 19s. 6d. per gal. ex quay Liverpool.

COPPER SULPHATE continues dull, and prices have eased owing to the slump in metallic copper. Orders can now be placed at about 60s. per ton f.o.b. Liverpool, less 5 per cent. A revival of export business is deferred, as the question of licences still presents some difficulty.

CORIANDER-SEED is unchanged at 32s. 6d. per cwt. for new crop Morocco and 28s. for old crop.

COUMARIN is offered at from 139s. to 140s. per lb. as to seller.

CREAM OF TARTAR remains dull and easier, with spot sellers of 98 to 99 per cent. powder at from 380s. to 385s. per cwt.

CUMIN-SEED is slow of sale at 50s. to 55s. per cwt. for fair to good sifted Morocco.

DILL-SEED is neglected, and the quotation is nominal at about 55s. per cwt.

EUCALYPTUS OIL is steady at from 4s. 6d. to 4s. 3d. for B.P. oils (70 to 75 per cent.). The defective packing is a serious drawback to this business, as consignments now arriving show evidence of considerable leakage.

FARINA is about 3s. per cwt. lower, with sellers of No. 1 Japanese (potato-starch powder) at 65s. Sweet-potato flour has sellers at 66s. on the spot.

ETHERS (METHYLATED).—Makers have advanced their prices by 1d. per lb.

FENNEL-SEED is still quoted 52s. 6d. per cwt., but no business has transpired.

FENUGREEK-SEED is lower, with sellers at 22s. per cwt. for good Morocco.

FORMALDEHYDE.—All restrictions on the sale and purchase of formaldehyde have been removed by the Government of the United States, and free export, as in pre-war times, is permitted as from January 1, 1919. The Army Council gives notice that further consignments of this chemical will not be requisitioned on arrival, and that the Formaldehyde (Deals) Order of July 8, 1918, fixing prices, will be cancelled as from March 1, 1919. It is expected that the price will now undergo some modification. The situation in methyl alcohol is very firm in U.S.A., and an advance is confidently expected.

GENTIAN.—Spot stocks remain good, with prices in buyers' favour at from 77s. 6d. to 80s. per cwt.

GLYCEROPHOSPHATES are still scarce on the spot, and one holder has advanced the price of lime to 15s.

HENBANE.—Irish-grown first biennial of good appearance is offered at from 4s. 3d. to 4s. 6d. per lb.

HEXAMINE is likely to be affected by the formaldehyde position, and may improve. Meanwhile it can be bought freely at from 6s. 6d. to 5s. 9d. on the spot.

HYDROQUINONE.—The demand is rather better at from 14s. to 13s. 9d. per lb.

HYPOPHOSPHITE.—Lime is offered at 5s., sodium at 5s. 9d., and potash at 8s. 3d. per lb.

IPÉCACUANHA.—The stock at the end of the year was 495 Matto Grosso, 3 Minas, 21 Cartagena, and 47 East Indian. The landings during 1918 were 992 Matto Grosso, 71 Minas, 4 Cartagena, and 50 East Indian; while the deliveries during 1918 were 666 Matto Grosso, 62 Cartagena, and 63 East Indian.

LIME-JUICE.—Large arrivals have taken place from the West Indies to London.

LIQUORICE-JUICE.—There are cable offers from a well-known Sicilian house this week at 34s. per cwt. c.i.f. for block and at 420s. c.i.f. for sticks for January shipment.

LITHIA CARBONATE.—Although stocks are small it is still obtainable at the reasonable price of 12s. 6d. per lb.

MACE was lower at auction; 26 packages West India sold, bright curly pale 2s. 5d., fair to good bright palish and reddish 1s. 10d. to 2s. 1d., ordinary red to fair palish 1s. 5d. to 1s. 7d., pickings 1s. 1d. to 1s. 3d.

MENTHOL.—Quiet, the spot value of Kobayashi-Suzuki being 20s. 3d.

METHYL SALICYLATE is subject to keen price-cutting by dealers, who are overstocked, and the price has been reduced to 5s. per lb.

MILK-SUGAR.—Spot prices of best Dutch powder offer at from 2s. 2d. to 2s. 3d. per lb., as to quantity. Between now and the spring the price is expected to decline still further.

MINT OIL.—Japanese is quiet, with spot sellers of the favourite brands at 6s. per lb.

MIRbane OIL in drums is offered on the spot at 1s. 5d. per lb.

MORPHINE is steady on the basis of 19s. 6d. per oz. for hydrochloride powder.

NUTMEGS were lower at auction. Of 61 packages West India 19 barrels sold, 118's at 1s. 3d., 81's to 91's, slightly

wormy, 10d. to 10½d.; 40 bags garbled Bombay sold, 76's to 85's 1s. 5d. to 1s. 6d., 90's to 103's 1s. 3d. to 1s. 4d., defective 8½d.

ORRIS is easier, with sellers of fair Florentine sorts at 12s. per cwt. on the spot.

PARALDEHYDE is obtainable at a lower price than that at which it can be imported from America, and buyers should take advantage of the situation, from 6s. 6d. to 7s. per lb. being quoted.

PEPPER remains quiet, with sellers of fair black Singapore at 1s. 2d., Tellicherry at 1s. 3d., and Aleppy at 1s. 2d., all spot. White Muntok is 3d. per lb. lower, with spot sellers at 1s. 10d. Should the restrictions on export be removed some look for a recovery. At auction 185 bags black Singapore offered and 17 sold without reserve, greyish 11d. and fair 1s. 2d.; 78 bags Tellicherry and 453 bags Aleppy bought in.

PEPPERMINT OIL is rather firmer at 28s. 6d. per lb. for finest American in tins on the spot.

PEPSINS are lower, B.P. 1:2500 offering at 30s. per lb. in scales and powder.

PHENOLPHTHALEIN.—American U.S.P. is quoted at 31s. on the spot.

PIMENTO is in little demand, the spot value being nominal at 5d. per lb.

POTASH PERMANGANATE.—Sellers of American or Japanese quote 9s. 6d. to 10s. 6d. per lb. on the spot, the former offering at 8s. 6d. to come forward.

POTASH PRUSSIATE of Dutch make is available on the spot at 2s. 6d. per lb.

PYROGALLIC ACID.—Buyers are now getting ready for the photographic season, so that the demand should improve. Prices remain steady at 15s. to 15s. 6d. for crystals and 16s. 6d. for resublimed.

QUILLIA is offered at 77s. 6d. per cwt. for f.a.q. ex store London.

QUININE.—The position remains entirely unchanged at the fixed prices of from 2s. 11d. to 3s. per oz. Buyers are beginning to wonder whether the Government are gradually getting rid of their war commitments, and when they are going to allow a "free" market again.

RESORCIN is easier at 37s. 6d. per lb. on the spot.

SACCHARIN is nominal, and several holders who are overstocked are selling at the best prices obtainable. From 200s. to 210s. per lb., duty paid, is quoted for 550 pure on the spot. This is in view of the much lower prices of \$6 to \$7 recently quoted in America.

SALICYLATES.—Sales of salicylic acid are very limited, and the price of B.P. powder is about 3s. 9d. in quantity. Soda salicylate is still maintained at 5s. 3d. per lb.

SALOL is easier, with spot sellers at 7s. 3d. per lb.

SARSAPARILLA.—The stock at the end of the year was 1,198 bales; the landings in London during 1918 were 1,580 bales, and the deliveries 560 bales.

SHELLAC remains nominal, with sellers of TN Orange, basis fair, at 290s. to 295s., and AC cakey at 295s. The landings of Orange, Garnet, and button during the month of December were 5,196 cases, and the deliveries 1,441. The total London landings during the past year were 23,074 cases, against 7,345 in 1917, 42,286 in 1916, and 59,778 in 1915; and the total London deliveries last year 22,268 cases, compared with 35,257, 81,818, and 55,767 respectively during the three preceding years. The London stocks on January 2 were 26,858 cases, against 26,052 a year ago, 54,177 in 1917, and 93,709 on January 1, 1916.

SODA BENZOATE is still rather scarce, holders quoting from 20s. 6d. to 20s. per lb.

SOY.—After a lengthy interval 25 casks Japanese have arrived.

SQUILL keep steady, with good new crop white offering at 65s. per cwt. on the spot.

TARAXACUM.—Dried English is quoted at from 100s. to 105s. per cwt. on the spot.

TARTARIC ACID is on the slow side at from 3s. 9d. to 3s. 10d.

TERPINEOL is about 1s. per lb. lower, with spot sellers at from 7s. to 7s. 6d. per lb., as to quantity.

TURPENTINE.—A large business has been done through the Turpentine Distributors' Association to consumers with the sanction of the Ministry amounting to about 20,000 barrels, comprising January-April and January-June deliveries. The price of French is 105s. London, 106s. Liverpool and Glasgow, and 107s. Bristol and Manchester.

UVA URSI LEAVES are offered at 43s. 6d., 47s. 6d., and 65s. 6d. per cwt. as to quality.

VANILLIN is being quoted at the appreciably lower prices of from 61s. 6d. to 62s. per lb., owing to the reduction in clove oil.

WAX (VEGETABLE).—Japanese is lower, with spot sellers at 95s. per cwt.

Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the ports of London and Liverpool:—

To London	3 drms.; bay (W.I.), 5 cs.; caraway (Dutch), 1 drm.; lime (W.I.), 40 cs.; lime, hand pressed, 5 cs.; mint (Jap.), 25 cs.; orange (W.I.), 1 cs.; patchouli (Jap.), 15 cs.	Anise (Sp.), 50 bgs. Balsam tolu, 19 cs. Balsams, 22 cs. Cardamoms (Cey.), 246 pkgs. Cascara sagrada (N.Y.), 633 bgs. Cedar wood oil (N.Y.), 4 drms. Cinchona (W.C.S. Amer.), 196 cs. 171 sks. Citronella oil (R'goon), 20 cts. Damiana leaves (N.Y.), 25 bgs. Essences (Sp.), 11 drms. Eucaalyptus oil, 62 cs. Juniper berr. 170 bgs. Lavender oil (Fr.), 9 drms. Liquorice root (Sp.), 107 cs. Orris, 54 bgs. Peppermint oil (N.Y.), 55 cs. Quillaja, 1,186 bls. Sarsaparilla (S. Amer.), 179 bls. Sassafras oil (N.Y.), 24 cs. Turmeric, 60 bgs. Witch hazel bark (N.Y.), 53 bgs. Dyes, dyeing and tanning materials: bark ext., 75 bgs.; cochineal, 38 bgs.; cutch (R'goon), 2,150 bxs. (Sp're), 1,500 bxs.; dyestuffs, unrated, 182 cs.; gambier (Sp're), 5,105 cs.; hematite cryst. (U.S.), 100 brls.; logwood, 12 tons; logwood ext. (Jam.), 550 bgs. (W.I.) 219 bgs.; farina, 25,518 bgs.; rice, 1,102 bgs. Starches (Jap.), 836 bgs. (St. John's N.B.), 125 bgs. (W.I.) 219 bgs.; farina, 25,518 bgs.; rice, 1,102 bgs. Tallow (S. Amer.), 2,244 tcs. Wax, bees' (Antig.), 2 brls. (E. Af.) 56 blocks, (Natal) 55 bgs. Wax, sperm whale, 490 bgs. Wax, veget. (Jap.), 208 cs.
	To Liverpool	
	(Dec. 27, 1918, to Jan. 3, 1919).	
	Alcohol (Demerara), 228 puns.	
	Antim. ore (S.Amer.), 19,322 bgs., etc.	
	Chemical products, etc.: 20 bxs. (St. John's N.B.), 21 cs. 190 brls. (N.Y.).	
	Acetanilide (N.Y.), 23 brls.	
	Argol (Port.), 288 bgs. 100 cks.	
	Benzoic acid (N.Y.), 10 pkgs.	
	Boric acid (It.), 349 pkgs.	
	Bromides (N.Y.), soda, 40 cs.; potassium, 39 cks.	
	Cream of tartar (Sp.), 152 pkgs. (Port.) 50 cks.	
	Potash perchlor., 60 brls.	
	Glycerin (Port.), 37 drms.	
	Hydroquinone (N.Y.), 15 cs. 6 kgs.	
	Milk sugar (U.S.), 352 brls.	
	Potash, 3 brls.	
	Potash perchlor., 60 brls.	
	Soda benzoate (N.Y.), 8 brls.	
	Soda nitrate, 27,462 bgs. 6,665 sks.	
	Tannic acid (N.Y.), 44 brls.	
	Tartar emetic cryst. (N.Y.), 9 cks.; powder, 15 cks.	
	Copra (Jam.), 276 bgs.	
	Drugs, etc., unrated, 44 bgs. 9 cs. 7 pkgs. (N.Y.), leaves 25 bgs. 32 bls. (Sp.), roots, 6 bgs. (Sp.).	



British Chemicals.

SIR.—I believe it is the universal opinion of pharmacists and all in the medical profession that the drugs produced in this country as a result of British enterprise, and largely necessitated by the absence of the imported products from Germany, almost without exception compare favourably with the foreign-made articles. Everyone undoubtedly wishes to see these home manufactures maintained in this country against the foreign-made products, but there appear to me to be three essential conditions necessary before this can be achieved, viz.:

1. For a period of at least ten years the importation of all drugs which can be manufactured in sufficient quantities at home must be prohibited.

2. Drugs which are not manufactured in sufficient quantities at home must only be imported on the condition that they are invoiced at the price ruling in the country of origin.

3. The manufacturer must undertake that during this temporary protection he will not raise prices beyond a fair limit.

I am confident the manufacturers will be willing to agree to the third clause, and success with the first two proposals would be assured if the retailers would lend their support by bringing the matter before members of Parliament and in every other way possible. In, say, ten years' time, British manufacturers would be producing in sufficient variety and in sufficient quantities to compete successfully with all Overseas products. Will not the organisations controlling the retail drug and chemical trades operate in this matter, which is one of vital and common concern to them and to the manufacturers?

Yours faithfully,

RALPH J. PUGH.

Norwegian Cod-liver Oil.

SIR.—I notice in your issue of December 14 (p. 48) a paragraph on Norwegian cod-liver oil on which I should like to make comment. I quite agree with you that as pharmacists are being charged as much as 550s. per barrel for medicinal oil the price will become prohibitive by the time it reaches the public. But when you say that "Norwegians, in spite of submarines, have made large fortunes out of cod-liver oil during the last year or two," I am afraid that you are misinformed concerning our cod-fisheries. To begin with, submarines have not interfered with the cod-fishing, which always takes place close to the shores in Norwegian waters, where submarines did not frequent. Submarines did a good deal of harm to the fisheries of Haakjærring (Greenland shark—*Scymnus glacialis*), which fishing takes place at sea in the direction of Spitzbergen. Moreover, there is to my knowledge no fisherman or merchant who has made any fortune out of cod-liver oil during the last year or two. Anybody that knows the manner in which the Norwegian cod-fisheries are conducted will understand that this was out of question, and quite impossible. Beforehand the Government had fixed a maximum price for the oil, and the fishermen always sell the livers separately and apart from the fish itself, of course taking the full value of the liver calculated upon the percentage of oil in the liver; and you may feel quite sure that the fishermen, knowing the value of the oil, do not allow the buyers of liver more than the strict limit for the costs of production of the oil. It would, therefore, only be on old stocks that the sellers could have realised extremely high prices, but such prices cannot have been charged by Norwegian exporters, as they have been wholly unable to ship any cod-liver oil, as no licences have been granted to private exporters. In view of this it would be very interesting to all exporters in Norway to know who the body is that has "taken advantage of the British Government" or the British public by charging undue prices. You predict a "record fishing" in the season to come, but I must express an opposite view. The Norwegian fishing people are not well stocked with gear and all necessary fishing appliances. The fact is that gear is very scanty and so extremely dear that the fishermen have to restrict their purchases to bare necessities. And as to petroleum, this fuel is rationed, and the ration is so scanty that fishermen concerned in the herring-fishing have offered 700kr. (nearly 45l.) for a single barrel of petroleum. Cod-fishers cannot afford such extravagances, but of course everybody now hopes that with peace in sight supplies of petroleum will be better. It is impossible for me to say if there is any important stock of cod-liver oil left in Norway,

as I do not know how much has been consumed here, nor how much exported abroad in the way of "compensatory" trade, but I do not think there is any stock worth mentioning. The production of medicinal oil in 1918, as you know, was only 21,500 barrels, against 37,100 barrels in 1917, 60,000 barrels in 1916, 53,000 barrels in 1915, and 57,200 barrels in 1914.

Yours truly,

December 24, 1918.

A BERGEN EXPORTER. (8/35.)

Why not Chemists?

SIR.—The Insurance Commissioners, through representations made to them by the British Medical Association, have decided to make a cash allowance not exceeding 60/- on each of the following items to panel practitioners. The items are as follows:

(1) Increased cost of living.

(2) Increased cost of carrying on practice during the war.

The Commissioners are circularising the panel practitioners to this effect and informing them that the B.M.A. have made out a case for a grant in cash to all panel practitioners under heading No. 1, but they do not consider that a case has been made out under heading No. 2 for urban practitioners, but only for the rural areas. Therefore a rural panel doctor can get a cash grant not exceeding 120/- The panel doctors are instructed to apply to the income-tax office for a certificate, and upon forwarding this certificate to the Commissioners a cheque will be forwarded to them. If the B.M.A. can do this for the doctors, why cannot something of the kind be accomplished for the panel pharmacists through the Pharmaceutical Society? When the panel pharmacist gets to hear of this grant to doctors it will not make him more contented, particularly as he has a grievance against doctors for obtaining such favourable terms for attending discharged soldiers—viz., 2s. 6d. per visit or attendance. This is an extra which is amounting to a considerable sum. Those who accepted the new Drug Tariff terms will see now that they did so without proper advice.

Faithfully yours,

OXFORD. (8/19.)

Insurance Dispensing Profits.

SIR.—The question of the profitability or otherwise of the panel pharmaceutical service as carried out by chemists crops up now and again in the *C. & D.*, and with a view to seeing how it affected me individually I took the trouble to dissect my records and accounts. My inquiries covered the prescriptions dispensed during a period of six months in 1918 (three in the summer and three in the winter), and gave the following results:

Number of prescriptions dispensed, 1,457.

Total value as ascertained by Insurance Committee, 547. 7s. 6d.

Cost of goods, 34l. 8s. 11d.

Dispensing-fees, 19l. 18s. 7d.

Average value of prescriptions, 8.91d.

Average cost of goods, 5.66d.

Average dispensing-fee, 3.25d.

So that after supplying goods to the value of 34l. 8s. 11d., carrying out the dispensing service, with all that it entails, I make a gross profit of 19l. 18s. 7d. Off this must be deducted the charges for the Pharmaceutical Committee's expenses, which amount to 1l. 2s. 7d., leaving 18l. 16s., which is 34.6 per cent. on the turnover. Deduct working expenses of at least 15 per cent., and the net profit is 19.6 per cent., a totally inadequate return for one's services in the most exacting and responsible department of our craft.

Yours, etc.,

DEVON. (18/12.)

A Chemists' Assistants' Union.

SIR.—At a meeting of drug workers, held in London on January 4, an official of the Shop Assistants' Union threw out a hint that numerous separate Druggists' Unions would be started up and down the country. The cry, "One trade, one union," could not be interpreted in a way more democratic, and not much harm could result provided each such organisation and its funds was entirely owned, controlled, and run by drug and chemical workers. Voluntary amalgamation would very quickly ensue, and then the formation of a "Chemical Parliament" or "Federation," embracing every section of applied chemistry, become a near event. Danger can only come if men start joining organisations not primarily intended for them; the temptation is strong, I know, and I have yielded to it myself. The rank-and-file of London's drug workers are transferring themselves of their own free will from the Shop Assistants' Union into the Amalgamated Society of Pharmacists. Drug and Chemical Workers, a trade union which their leaders have helped to prepare for them. One of the highest aspirations and greatest ambitions of these workers is to organise themselves into a craft on thorough trade working lines. Up to the present not a single

employés' representative on the Conjoint Industrial Council is a drug and chemical worker or chemist. A large section (if not the largest) of the Shop Assistants' Union are opposed, and have been for years, to trade lines of organisation within the Union. Trade union officials openly state that for a number of unions a day of exchanging of members must come; hence, therefore, the race to acquire huge and indiscriminate membership in order to possess power in barter. Knowing this and a good deal more relating to the unions primarily intended for labourers and heavy manual workers, and which sit on the Conjoint Industrial Council, the London druggists have resolved to set themselves free and secure complete self-control of their own destiny.

Yours sincerely,
UNITAS. (12/21.)

Back from the War.

SIR.—Now, when so many of our qualified men, both ex-owners and assistants, are returning to civil life, probably after having sacrificed much in the service of our country, it behoves the powers that be to see to it that every effort is made to remove the competition of the hundreds of unqualified persons. The unqualified have taken advantage of the absence of registered chemists and the laxity of the Pharmaceutical Society in guarding the interests of qualified persons. It must be known that many businesses, sold by their former owners at knock-out prices, have been secured by men unable or unwilling to obtain the necessary qualification, and that these men are with the utmost *sang-froid* exhibiting the titles of "Pharmacist," "Dispensing Chemist," or "Cash Chemist," although no more entitled to these designations than the errand-boys they employ—many, if not all of them, have probably sprung from the "errand-boy" class themselves. Every chemist in business who has to compete in his district with men of this calibre knows perfectly well that almost every clause in the Pharmacy Act is practically defied. Now that we have a Secretary who knows from actual experience the grievances under which qualified men in business have been compelled to work, it is not at all unlikely that the Society's outdoor officials will be instructed quietly to work at this matter. Why should the Society not open a "Black List," and invite all chemists in business to send in, confidentially, details concerning the cases which come under their notice, leaving the rest to be worked out by the Society's officials? . . . The qualified individual with a so-called "branch" is also frequently a big offender in this way, and instances are common where, say, "J. Smith," a duly qualified man, allows his brother or son (unqualified) to put up a sign such as "Smith, Pharmacist," etc., and possibly the general customer thinks he is dealing with "J. Smith." A little investigation will soon prove that "J. Smith" is not the tenant at all, and is not responsible for the debts of "Smith" at the branch. Surely our Society's "smart men" could obtain access to the local rate-books, and could easily run down these offenders. Then there is the "Register" to prove if "J. Smith" has registered the branch as in his occupation. If he has so registered it, then the Society's officials should see that a properly qualified man exhibits his certificate there, as required by law. The grievance is not a new one by any means, but is much more common than is generally known or admitted.

Faithfully yours,
A CHEMIST AND PHARMACIST. (21/6.)

Subscribers' Symposium.

Jay Macksim
(as he writes them).

1. If "Xrayser II." will think hard he will agree with me that chemistry, physics, and botany should not be Part I. of the examination.

2. Students coming to us, well up in Part I., would be disgusted to find that pharmacy, *materia medica*, prescriptions, and poisons are the "stuff" wanted daily.

3. None but the "official" class could assimilate higher education and Part I. at age of sixteen, and that class will not take to the retail counter.

4. As Dr. Hodgson, of the Cheshire C.C., says, "Methods of medication have entirely altered during the last thirty-six years, and many chemists do not seem to be aware of the fact."

5. The actual business of the retail druggist has been ignored in the new examination; the old mossy bucket is to be again sent to the well for fees; and the result can only be to reduce our numbers by half—and shut up the shops.

6. This will do good. The businesses left will be bigger, better fitted and staffed, and those worth keeping will have to become private limited companies, or be sold off for want of purchasers.

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

E. S. (258/26).—LIABILITY TO MEDICINE STAMP-DUTY.—If the references to "known, admitted, and approved" remedies are correct, the labels you submit do not involve liability, as you are a registered chemist. The formula reference may be on a separate label if that is more convenient.

George (255/27).—VALUE OF BUSINESS.—The old idea of the value of a business was valuation of stock and fixtures and a payment for goodwill equal to a year's returns. Some businesses are still worth this, but not many. The usual thing now is a valuation of stock and fixtures, with an agreed sum for goodwill, which may be 20*l.*, 50*l.*, or 100*l.*, according to the class of business.

Rix (255/64).—PARTNERSHIP.—The method you propose implies that you have great confidence in your proposed partner, which no doubt is justified. In a partnership, however, the owner of the capital usually requires to take precautions against disputes that may arise in the course of years. We recommend you to consult a local solicitor as to the method of protecting your interests.

Observer (4/47) has a garden about half an acre in extent attached to his premises. In the spring of 1914 he arranged verbally with a man that the man should cultivate the garden, "Observer" taking the produce of one-half and the man the produce of the other half. This arrangement remained in operation until last autumn, when the man went to France to work for the Y.M.C.A. The garden is now in a very neglected condition, and although "Observer" has written to the man asking whether he proposes to cultivate the garden in 1919, he has received no reply. "Observer" would like to terminate the arrangement. What course do we advise him to pursue? [It is difficult to state, upon the facts disclosed, whether the man is in the position of a mere licensee having the right to cultivate "Observer's" land, or of a tenant at the rental of the produce of one-half of the land. If the former is the case, "Observer" is quite within his rights in giving notice to the man terminating his right to enter and cultivate the land. On the other hand, the Court might hold that the arrangement created a tenancy entitling the man to even as much as a year's notice, and in the circumstances we advise "Observer" to come to an amicable termination of the arrangement with the man if possible, making him due "compensation" in respect of growing crops, etc., if the case warrants such a course.]

E. H. S. B. (11/24).—DISPENSER QUALIFICATION.—The Assistants' examination of the Society of Apothecaries qualifies the holder of the certificate to act as a dispenser to an apothecary, this being in accordance with the Apothecaries Act, 1815, Section XVII, of which is as follows:

And be it further enacted, That from and after the First Day of August One Thousand eight hundred and fifteen it shall not be lawful for any Person or Persons (except the Persons then acting as Assistants to any Apothecaries as aforesaid, and excepting Persons who have actually served an Apprenticeship of Five Years to an Apothecary) to act as an Assistant to any Apothecary, in compounding or dispensing Medicines, without undergoing an Examination by the said Court of Examiners or the major Part of them, or by Five Apothecaries so to be appointed as herein-after is mentioned, and obtaining a Certificate of his or their Qualification to act as such Assistant from the said Court of Examiners, or the major Part of them or from the said Five Apothecaries who are hereby authorised and empowered to examine all Persons applying to them for that Purpose, and to grant a Certificate of such Fitness and Qualification.

Further sections of the Act state that the examination-fee is to be two guineas, and that any person acting as an "assistant to an apothecary" without having obtained the certificate referred to is liable to a penalty of five pounds. We have quoted the section in full so that your inquirer may know of the very limited application of the certificate. Particulars of the examination can be obtained from the Clerk of the Society of Apothecaries, Water Lane, Blackfriars, London, E.C. The number of women who have obtained the certificate is very large, and we think the needs of apothecaries must have been met several times over.

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Secundo Curo (253/40).—The first edition of GERARD's "HERRALL" was published in 1597 by John Norton; the second (and greatly improved) edition, edited, with additions and emendations, by Thomas Johnson, apothecary, appeared in 1633, and was reprinted in 1636 without alteration. The value of a copy of either edition depends, of course, upon its condition. We have seen copies of Johnson's edition offered at anything from two guineas to ten, the latter quotation being for a "perfect" copy, with engraved portrait, etc., all complete. The earlier edition being rarer and more of a curiosity, would probably fetch more.

Donerail (5/53).—DOSE OF ACETANILIDE.—The medical authorities have for some years "wobbled" in regard to the dose of acetanilide. In the "Additions to the British Pharmacopœia," published in 1890, the dose was given as "3 to 10 grains." In the British Pharmacopœia 1898 the dose was altered to "1 to 3 grains"; but in the present Pharmacopœia (1914) the dose is "2 to 5 grains." Our view is that if you put much less than 3 grains of acetanilide in each headache-powder the powder will cease to have the effect required by the public. There is at present nothing of a like nature that is cheaper than acetanilide. The addition of sodium bicarbonate is pharmacologically correct.

W. W. (9/67).—CHAMOMILES.—The official chamomiles in this country are the flower-heads of *Anthemis nobilis*, "collected from cultivated plants." This variety is known as English chamomile. Scotch chamomile is the name given to single flowers, and the double flowers (the kind preferred by the public) is also known as Roman chamomile. German chamomile, which is official in the United States Pharmacopœia, is derived from *Matricaria Chamomilla*. The properties of the two kinds are similar, but confusion is often caused in London and other cosmopolitan cities when foreigners ask for chamomiles and receive the flower-heads of *Anthemis nobilis* instead of *Matricaria Chamomilla*, which they expect.

A. A. S. S. (Florence) (229/29).—LIQUID DENTIFRICE.—See reply published in *C. & D.*, November 2, 1918, p. 52.

French (Vigo) (193/61).—STRENGTHENING PLASTER.—The rubber basis is made from a formula such as the following:

Melt 134 grams of anhydrous wool-fat with 16 grams of copaiba, and heat for a short time to 100° C. The partially cooled mixture is then dissolved in 60 grams of benzin, and when cool a solution of 50 grams of caoutchouc in 300 grams of benzin is added. The whole is well mixed with 50 grams of powdered orris rhizome and enough benzin added to make the mass of the proper consistency for spreading.

M. J. F. (236/72).—STYPTIC PENCILS.—These are generally made by melting the ingredients together and pouring into moulds. Tablets of alum and borax are made in this way for use after shaving.

H. B. R. (211/28).—We do not know of an aniline dye soluble in turpentine suited to your purpose, but Williams Bros. & Co., Hounslow, would, we believe, be able to advise you on this point.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Jan. 15, 1869.

Change of Address.

Our correspondents will please to note the change in our address from 42A Cannon Street to Colonial Buildings, 44A Cannon Street. [The renumbering of the street gave us our present number "42."—Ed.] We have for some time past required increased space and accommodation, and we consider ourselves fortunate to have obtained these so immediately in the neighbourhood of our former position. The ample arrangements for convenience in our new offices will give us no excuse for want of attention to every detail connected with our journal and the trade; and commencing the year as we do with these advantages, as well as with an increased staff, hundreds of new subscribers, and bright prospects for pharmacy, we look hopefully upon our future course.

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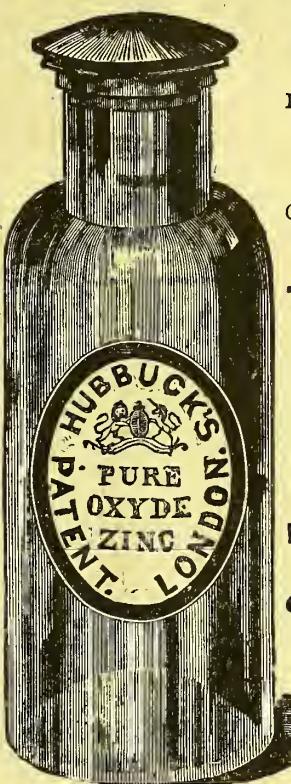
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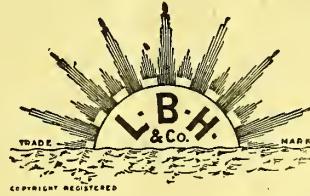
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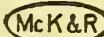
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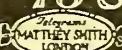
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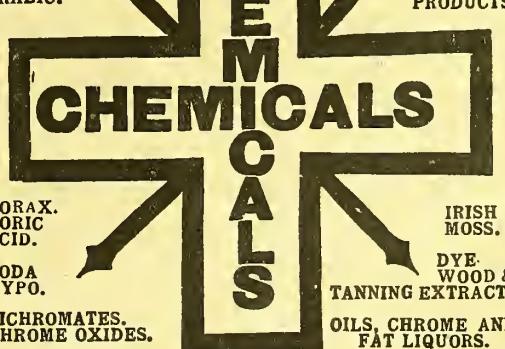
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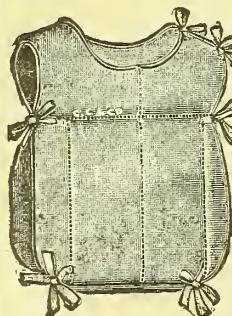
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Chlorodyne

is on P.A.T.A. Protected List, & must not
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Winter's Chills are here, therefore stock



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SHOWCARDS
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ADVERTISING MATTER
SUPPLIED
WITH EACH ORDER.

IN TWO QUALITIES.

Made in six stock sizes.
Any special size made to order.

Façsimile of Showcard.

No.	Across chest	Shoulder to waist	COTTON		LAMB'S		WOOL	
			Per doz.	Retail each	Per doz.	Retail each	Per doz.	Retail each
1	8 in.	6 in.	9/6	1/3	16/-	2/-		
2	10 in.	8 in.	12/-	1/6	20/-	2/8		
3	12 in.	10 in.	16/6	2/-	24/-	3/4		
4	15 in.	12 in.	20/6	2/6	28/-	4/-		
5	19 in.	13 in.	25/-	3/-	32/-	5/-		
6	21 in.	15 in.	30/-	3/9	40/-	5/6		

Owing to the exceptionally large call we are having for
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STARUP'S REAL DANISH CHEESE RENNET EXTRACT is guaranteed to be made from finest calf veals only, and does not contain Pepsin or other kind of substitute.

Chemists and Druggists, please ask for G. C. Starup's real Danish Rennet Extract, Annatto Cheese Colour and Butter Colour.
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EVEN WHEN
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the contents do
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bottle is capped
with

SEMREH
BOTTLE CAPS.

They provide a
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SEAMLESS ENEMAS.

Per Dozen

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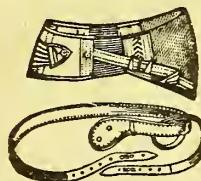
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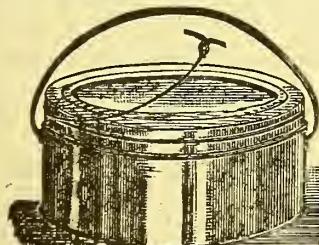
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A SPECIALITY.



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FILTER
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If not, now is the time to send us your orders.
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They will be asking YOU for Cataline.

CATALINE PLEASES YOUR CUSTOMERS THE SALES WILL PLEASE YOU
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ONE SIZE, ONE PRICE, NAMELY, 2 6 PER BOTT.
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Stocked by most Wholesale Houses.

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Packed in attractive Cartons, with
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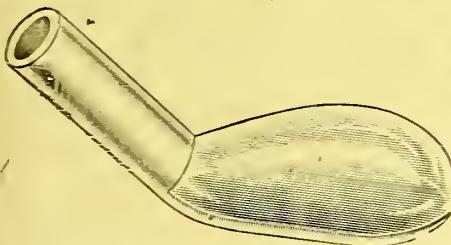
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we also have
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Glass Bottles.



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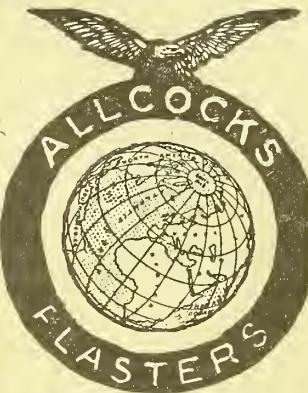
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A REMEDY OF 70 YEARS' STANDING.

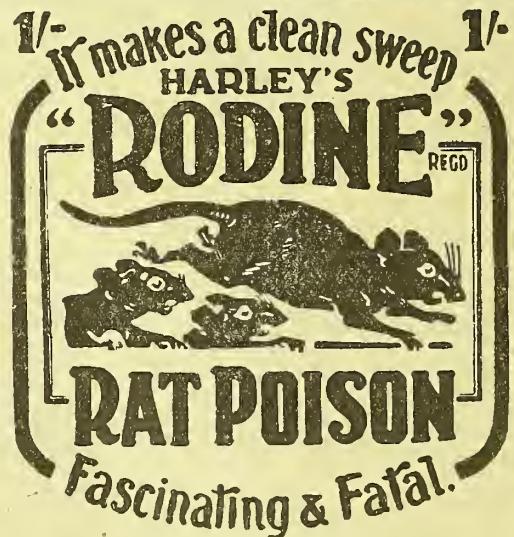
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For quick sales, repeat orders, satisfied customers, and the greatest numbers of dead rats there is nothing to beat "Rodine," while appointed Agents get nearly 100 per cent. Profit. Send for a Carriage Paid order (£1) now to the Maker—
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PATENT

First, there's the motorist—to him it means much. He knows how easily a nut or bolt, a door slammed quickly, or a damaged mud-guard will make an ugly jag in his clothes. But he knows as well how quickly and conveniently a little "Mend-a-Tear" will put it right.

"Mend-a-Tear" mends without stitches, mends in a moment "any little jag like that." If you stock it you will be a friend to many motorists—in fact to everyone who ever tears a garment or a piece of cloth. There's profit for you in the proposition.

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Cardam. Co. P.B.	4/-		3/10
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Quassia P.B.	4/10		4/8
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"	"	"	"	"	2 in.	21/6	,
"	"	"	"	"	3 in.	32/-	,
"	"	"	"	"	4 in.	42/6	,
"	"	"	"	G.O.W. 1 in.	11/-	,	
"	"	"	"	2 in.	21/-	,	
"	"	"	"	3 in.	31/-	,	
"	"	"	"	4 in.	41/-	,	
Gauze, Plain White Absorbent, 6-yd. pkts.				12/-	doz. pkts.		
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Nice and white, absorbent, interleaved, 1-lb. rolls.
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A satisfied client writes: "The wool seems excellent value."
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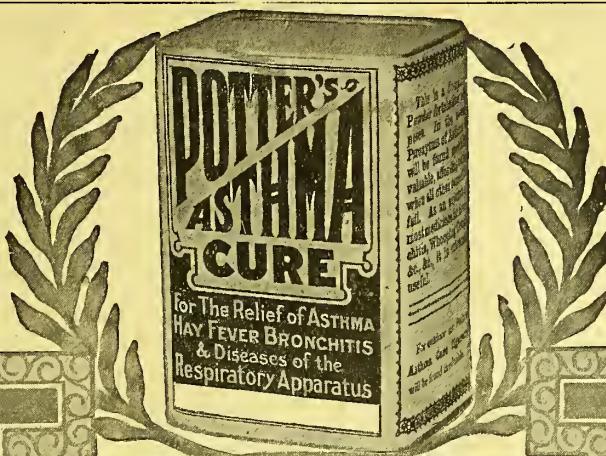
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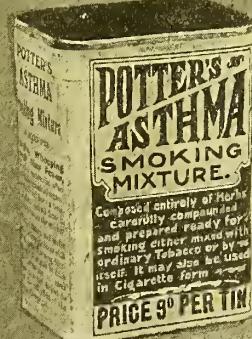
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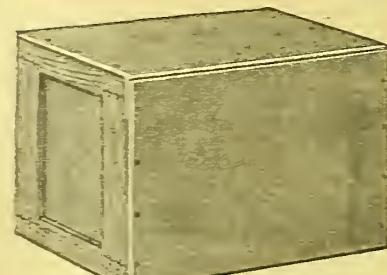
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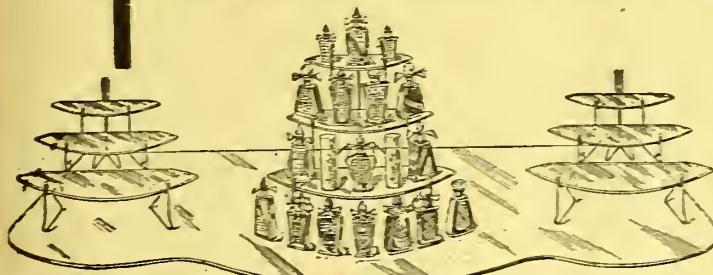
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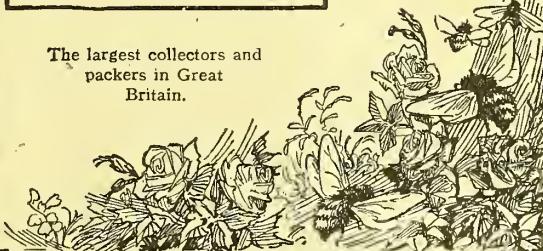
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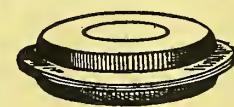
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Net Cash.

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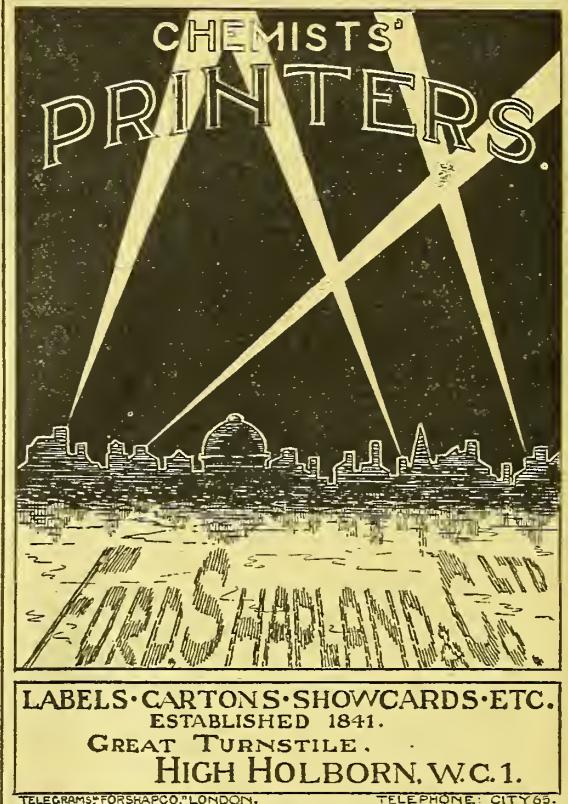
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HORSE, CATTLE, SHEEP & DOG MEDICINES.

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Cures Colic or Gripes in Horses or Cattle, Scour and Weakness in all Young Stock, Blown Cattle and Sheep, Debility, Chills and Low Condition in all Stock.

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For Costiveness, Loss of Cud, Indigestion, Garget, Colds, Fever, Hidebound, &c., in Cattle. Prepares Cows for Calving, Prevents Milk Fever, and cures Bad Cleansing.

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A Safe Embrocation for Sprains, Swellings, Windgalls, Sprung Sineus, Rheumatism, Sore Throat, Weak Joints, &c.

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OFFICES:
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JANUARY 11, 1919.

Advertisements for this Supplement must be received not later than First Post on Thursday Morning.

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Telephone Number: City 2283

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1.—LONDON, S.W. (Main Thoroughfare).—High-class Dispensing and Retail Business; returns last year exceeded £4,000; gross profit between 40 per cent. and 50 per cent.; handsomely fitted shop; corner position; further particulars on application; banker's reference would facilitate business.

2.—SOUTH KENSINGTON.—Vendor retiring; good-class Dispensing and Retail Business; present hands upwards of 42 years; returns last year £1,715 at good prices; well-appointed shop, fitted in mahogany and plate-glass; rent £120; sublet £40; price £900.

3.—LONDON, N.W. (Death Vacancy).—Ready-money Business, situated near busy tube station; returns over £1,500 at fair prices; handsomely fitted shop, fairly stocked; roomy house, garden; new lease will be granted; valuation terms entertained.

4.—LONDON.—Old-established good-class Retail and Dispensing Business; returns upwards of £2,000; scope for development; well-fitted shop and comfortable residence; no near opposition; price to be arranged equitably.

5.—KENSINGTON, W.—Dispensing and Retail Business; returns £800, formerly £1,000; well-fitted shop and comfortable residence; held on lease; first reasonable offer accepted; death cause of sale.

6.—CRYSTAL PALACE DISTRICT.—Cash Retail and Dispensing Business; established many years; returns about £1,150 at fair prices; there is also an appointment attached; rent £46; held on lease; stock and fixtures valued at £550; price £675.

7.—LONDON, N. (Busy Main Thoroughfare).—Ready-money Business; returns, under management, upwards of £2,000; commodious premises; corner position; vendor's own property; lease will be granted; valuation terms considered.

8.—GLOS. (Death Vacancy).—Good-class Retail and Dispensing Business; established 1826, and held by the late owner upwards of 50 years; returns, present rate, between £1,200 and £1,500; scope for extension under energetic management; rent £55, which includes residence; no reasonable offer refused.

9.—HOME COUNTY.—Modern Pharmacy, chiefly ready money, situate in centre of good market town; returns average between £3,000 and £4,000; well-appointed shop and good residence; about £3,000 required.

10.—L. & N.W. MAIN LINE.—Old-established Business; Retail and Wholesale in packed goods; gross receipts exceed £8,000, and during the past three years the average gross profit amounted to £2,031; the premises are held on long lease at a rental of £60; price about £3,000; a banker's reference will facilitate business.

11.—NORTH OF ENGLAND.—Cash Retail Business, with excellent sale for own Proprietaries; returns average £2,500; net profit £700 to £800; stock and fixtures valued at £2,500; rent £50; price £2,300; death cause of sale.

12.—N.W. COAST (Popular Health Resort).—Ready-money Business; capital situation; returns £2,700; net profit £900; turnover might be materially extended under qualified management; price £2,500.

13.—SOUTH MIDLANDS.—Good-class Business for disposal through death; established upwards of 100 years; returns over £1,300; net profit £300; no opposition; price £1,000.

14.—HOME COUNTY.—Modern Pharmacy, situate in principal street; returns exceed £1,000; full investigation permitted; the shop is nicely fitted and fully stocked; convenient residence; terms, valuation of stock and fixtures and £100 premium.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

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BIRMINGHAM suburb; main road; corner position; returns last six months over £30 weekly; owner leaving district, will take £300 for stock and fixtures for quick sale; great bargain; suit beginner. Apply "Rad" (216/11), Office of this Paper.

LONDON (12 miles out).—Very profitable unopposed Retail and Prescribing Business; excellent position; large sale of own Proprietaries; very little Insurance; good middle-class district; very low rent; long lease; good size well-fitted shop; returns £25 weekly; net profit, 1918, £436; price £600. "Rhei" (214/24), Office of this Paper.

LONDON, N.—Shop, d.f. Chemist's; completely and well fitted; established over 20 years; chance to pick up good business cheap; rent £60. Owner. 160 Stoke Newington Road, N.

LONDON, S.E.—Medium-class trade, embracing Insurance; total receipts £1,380; net profit greatly above average; all records properly kept, which will be produced with bank book to verify; price £600 cash; most satisfactory reasons for disposal; principals only, or their solicitors. Apply "Aspirine" (211/4), Office of this Paper.

LONDON, S.W.—For immediate disposal, old-established Cash Retail; working-class district; suit unqualified; returns average £25 per week; rent (inclusive) £41 per annum; same ownership 19 years; price asked £225 cash; valuation terms; residential, or lock-up shop; qualified man could soon double returns. Apply 215/13, Office of this Paper.

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MANCHESTER DISTRICT.—High-class Retail and Dispensing business for disposal; cash returns £900, increasing; price required £450; part of purchase money could remain over to suit purchaser's convenience. Address 214/17, Office of this Paper.

MANCHESTER SUBURB.—Chemist's Prescribing and Optical Business, beautifully fitted in mahogany by Treble's, London; established 45 years; returns £700; could easily be increased, as it has been neglected; rent £30; owner changing occupation; price £350. Apply 209/6, Office of this Paper.

SOUTH MIDLANDS.—Old-established Business; unopposed; hunting and agricultural district; good house; returns over £1,000; average profit £300; property to be sold; would consider exchange. Dickson, Chemist, Winslow.

SOUTH WALES.—Drug Stores, old-established, in populous working-class district; profitable business, with wine license; takings, over £1,000, could be increased under qualified management; recently valued at £650; will accept cash £500. "Drugs" (214/21), Office of this Paper.

SUSSEX.—Retail and Dispensing; principal street; returns doubled in five years; Dispensing as prescription book trebled; good house; bath, hot and cold; garden; little Insurance work; part purchase can remain; suit unqualified man by arrangement; fullest investigation; £600. Apply 199/17, Office of this Paper.

YORKS (WEST RIDING).—Suburb of large industrial city; a sound ready-money Business; returns over £3,500; corner position; vendor's own property; lease granted; advance age cause of sale; fullest investigation; price £2,400. Apply 214/9, Office of this Paper.

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2.—SUFFOLK.—Sound middle-class Cash Business, increasing; returns over £2,600; exceptional profits; large house; low rent; modern shop; fully stocked; fine position; price £1,000; strongly recommended.

3.—YORKS (W. RIDING).—Sound ready-money Retail, in splendid position; returns over £3,500; net profit about £1,000; good house and Pharmacy; heavily stocked; owner retiring; price £2,300; full value offered.

4.—HOME COUNTY.—Good-class Retail and Dispensing Business; ill-health sole cause of sale; returns £1,060; net profit £428; good house and garden; modern well-stocked Pharmacy; price £750.

5.—EAST COAST (Rising Resort).—Select Retail Business with Photographic returns; last year £1,300 odd, pre-war £1,800; well-fitted shop; good stock; convenient house; owner retiring; price £100 and valuation; in all about £850.

6.—N. DEVON.—Unopposed Light Retail and Dispensing; close to sea; returns £850; net profit £360; low rent; large house and splendid garden; price £500.

7.—LONDON SUBURB, S.E.—Very profitable suburban cash Retail; no Panel or Dispensing; returns £2,000; net profit £700; splendid position; well fitted and stocked; owner retiring; price £1,300.

8.—CRYSTAL PALACE (Near).—Middle-class Retail and Dispensing; returns over £1,200; good profits; no immediate opposition; low rent; fully stocked; price £675.

9.—LONDON, S.W.—Good-class Retail and Dispensing Business; in fine position, close to busy station; returns £1,000; no panel; clear net profit over £300; books properly kept; scope for increase; owner retiring; price £450; strongly recommended.

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We are in immediate want of sound concerns returning from £700 upwards; town and country; cash buyers waiting; intending vendors are cordially invited to correspond. Terms on application. Established 1870.

BUSINESSES FOR DISPOSAL (continued).

A GENUINE business; open to every investigation; returns over £800; deafness (creating general ill-health); splendid position; increasing returns; price £350; London, W., local. Apply "Aural" (205/17), Office of this Paper. Will advertiser please send his name and address to 42 Cannon Street, E.C. 4.

OWING to death of proprietor, an old-established Chemist, Book-seller, Stationer, Fancy Goods Business for immediate disposal; inspection invited. All particulars from Mrs. Trewicks, Pembroke, S. Wales.

SHOP to let, Jamaica Road, Bermondsey; Chemist's business for over 30 years; no premium required. For particulars apply Alderson, 67 Princess Road, Bournemouth, W.

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PARTNERSHIP wanted in sound business; with or without opportunity for X-Ray work, etc.; or in Wholesale, Manufacturing or Sundries, or where services of experienced Chemist could be utilised; capital £500 to £1,000. Apply 213/33, Office of this Paper.

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ROOMS; suitable Dental Surgery; over shop; London district. Apply 216/12, Office of this Paper.

LEGAL.

SYDNEY WALTER MAYS (trading as Sydney Mays), deceased Chemist, of 107 Fishponds Road, Eastville, Bristol, and EDITH MAYS, of the same address, his widow. Pursuant to the Statute 22 and 23 Vict., c. 35.

NOTICE IS HEREBY GIVEN that all Creditors and other persons having any claims or demands against the Estate of the above-named Sydney Walter Mays (who died on the 29th October, 1918) or his widow, the above-named Edith Mays (who died on the 31st October, 1918), and whose Wills were respectively proved in the Bristol District Probate Registry on the 14th and 28th December, 1918, by Frank Webb Mays, the Executor thereof, are hereby required to send in the particulars of their claims or demands to us, the undersigned, on or before the 8th day of February, 1919, after which date the said Executor will proceed to distribute the respective assets of the said Deceaseds amongst the persons entitled, having regard only to the claims or demands of which he shall then have had notice, and he will not be liable for the respective Assets of the said Deceaseds or any part thereof so distributed to any person of whose claims or demands he shall not then have had notice.

Dated this 1st day of January, 1919.

FUSSELL, BOUTFLOWER & RICHARDSON,
Solicitors for the Executor of the said deceaseds.
36 Corn Street, Bristol.

SALES BY AUCTION.

TO CHEMISTS AND DRUGGISTS, CATERERS, AND OTHERS.

250 LB. SACCHARINE TABLETS.
THE STOCK OF A TABLET MAKER,
All Guaranteed.

AMERICAN MONSANTO SACCHARINE,
2 original Tins Monsanto 550 Saccharine.
TWO AND A HALF MILLION TABLETS,
½ grain, 550 in one, Monsanto Saccharine.
100,000 Tablets Chic Sweetening Tablets, ½ grain.
5 gross 2s. Boxes ditto, 2 gross 1s. 3d. Packets ditto.
1 cwt. Cask Sweetening Powder.

M R. FRANK G. BOWEN will Sell by Auction at his Sale Rooms, 62a Aldersgate Street and Hare Court, London, E.C. 1, on THURSDAY, JANUARY 23rd, 1919, at 2 o'clock precisely.

On view day prior and morning of sale. Catalogues of the Auctioneer.

FOR SALE.

F OR Sale, 50 lb. White Thymol Crystals, B.F.; offers wanted. Apply 215/2, Office of this Paper.

F OR Sale, one 10-gallon hand screw-down Tincture Press; only once used. What offers? Address 214/20, Office of this Paper.

JACKETED Copper Steam Boiling Pans on tripod stands, 20 gallon, £18, £20; Copper Gas Water Boilers on stands, 3 gallon 55s., 10 gallon 85s.; Semi-rotary Pump, £3; Bottle-filling Machine, £18; Personal Weighing Machine, £4 10s.; two White Glass Decanter-shape Carboys, new, 25s. pair; Berkefeldt Filters, 1 candle, copper, 45s.; 3 candle, Enamel, 75s. Jackson's, Pownall Square, Liverpool.

M ARGERISON'S White Windsor Soap in 1 lb. bars; about ½ cwt. What offers? Whysall & Son, Grantham.

M IXER; double blade and reversing; suitable for heavy mixings; size of mixer inside, 30 in. by 1 ft., 10 in. by 24 in. deep; little used. Apply 217/31, Office of this Paper.

S UGAR of Milk; 28 lb.; U.S.P.; 4s. lb., carriage paid. Yankee, Ltd., 76 High Street, Manchester.

S URPLUS STOCK.—5 lb. original tin Menthol Crystals, Kobayashi, £5; 1 lb. bottles Wayne County Ol. Peppermint, 25s. each, state quantity; 1 gross tins "White X" Baby Powder, 36s.; 1 gross 1d. tins Harrison's Insect Powder, 6s.; 14 lb. Ung. Sulp. B.P. c. Lard; 14 lb. Ung. Zinc. B.P., 5 cwt. Pale Yellow Soap in bars, 40 to cwt.; 10 gallons Superfine French Olive Oil. What offers? Gibbs, Chemist, Berkhamsted.

T YPEWRITER, "Remington," in first-class order; also a Mixing Machine, suitable for mixing about 3 cwt. of lozenge or other paste. For further particulars apply 217/310, Office of this Paper.

9 LB. Fl. Quin. Cit., B.P., 1 lb. for 25s. 6d., 8 oz. for 13s., 4 oz. for 7s.; cash with order. John Noble, Pharmacist, 17 Owens Row, Loudon, E.C. 1.

APPRENTICESHIPS.

WANTED to apprentice a youth of seventeen, recently left school, to the Retail as an indoor apprentice, where a good sound knowledge of the business can be gained. Please give full particulars to 217/35, Office of this Paper.

BUSINESSES WANTED.

LONDON.—Modern cash Drug Stores; net profit about £500 a year, with scope for increased trade; must be a live business; spot cash will be paid. Full particulars to "Seneca" (217/23), Office of this Paper.

BUSINESS wanted; London or country; returns from £800 to £1,500. Full particulars, in confidence, "T. R." (214/15), Office of this Paper.

GOOD-CLASS Dispensing and Retail Business, situated in South of England, doing £1,000 to £1,500; seaside or growing neighbourhood preferred; strict investigation; deposit, and remainder by instalments. Full particulars of takings, profits, etc., and lease agreement, in confidence, 216/15, Office of this Paper.

WANTED, a sound Business, showing net profit of £350 or over; S.E. or E. Coast preferred, or within 100 miles of London, but not essential. "B." c/o A. C. Wood, 12 Milk Street Buildings, London, E.C. 2.

WANTED, good-class profitable Retail and Dispensing Business; healthy suburban or country district preferred; or would entertain Management with early view to succession on easy terms; age 39; business or position in view is one where energy and ability can have scope. Particulars of proposition to "Scot" (217/21), Office of this Paper.

WANTED, as soon as possible, small Drug Stores (mixed business no objection); Berks or Bucks preferred, with nice house and ground attached; small capital only at command, but good securities and references; suit unqualified. Reply, in confidence, to "Grey" (217/30), Office of this Paper.

AGENCIES.

BELGIAN Druggist and Herb Exporter, owner of warehouses, carts, and horses, desires to come to agreement with English Drug and Chemical Manufacturers to represent them in Antwerp as Agent on commission, with or without dépôt. Address 211/20, Office of this Paper.

BELGIUM.—A large British Manufacturer, having a dépôt in Brussels, together with experienced Manager and travelling staff visiting the whole of the country, requires agencies for Chemists' Sundries or articles for Druggists, to sell with own lines; could arrange to carry requisite stocks. Reply to 10/700, Office of this Paper.

FRANCE.—A large British Manufacturer, having works and dépôt in Paris, together with experienced Manager and travelling staff, desires agencies for Chemists' Sundries or Druggists' articles to sell with own lines. Reply to 10/70, Office of this Paper.

INDIA.—Wanted to represent an English Wholesale Drug house in India for Crude Drugs, Galenicals, packed goods, etc.; already well-established as Agents for certain Proprietary preparations; could also take a patent food; have our own travellers; bank reference, National Bank of India, Bombay and London branches. Replies to E. Stella & Co., Bombay, India.

IRELAND worked thoroughly by advertiser carrying two well-known Proprietary lines, who desires to take up another good line or agency on commission or otherwise; commands the most extensive and personal connection possible with both Wholesale and Retail Chemists and Druggists. Reply to "Influence" (203/14), Office of this Paper.

ITALY.—Advertiser, already representing other English houses and with office in Milan, is desirous of obtaining the agency of an English firm manufacturing Pharmaceutical specialities. Apply to 11/49, Office of this Paper.

LONDON Traveller, having a large connection amongst Chemists, wishes to represent a good house on commission; splendid references. Apply 174/12, Office of this Paper.

AGENCY.—A gentleman, age 36, late of the Canadian Expeditionary Force, taking up residence in England, good accountant, having a thorough business experience, requires agency for Drugs, etc., or allied trades; London and suburbs; nominal expenses and commission basis; highly recommended. S. G. M., c/o Messrs. Welch & Horner, 9-10 Jewry Street, London, E.C. 3.

AGENTS required, with established connection amongst Manufacturing and Wholesale Chemists and Druggists. Reply to 211/19, Office of this Paper.

AGENTS wanted for their respective grounds; 20 per cent. commission on all net accounts paid; orders booked, repeats, letter orders, etc., from the trade; a Proprietary medicine showing 33½ per cent. profit to the retailer; kindly state goods already carrying, duration of connection, exact ground, and references, not originals. Reply to 171/23, Office of this Paper.

THE ANGLO-FRENCH DRUG CO., LTD., desire to inform the trade that they have opened a Branch in Paris with large Stock Rooms. They are therefore now in the position to offer their unique experience in introducing British goods and Specialities into France, and would be pleased to receive proposals as to sole Agencies. The Company would also act as buyers in France for British and Colonial firms on a small commission basis. Proposals, etc., which will be treated confidentially, to be sent to the Head Office, Gamage Buildings, Holborn, London, E.C. 1.

MANUFACTURERS' Agencies wanted, buying or selling, by a gentleman who has a very large connection amongst Chemists, Hairdressers and Stores, and who already holds Agencies for well-known lines; Toilet Specialities preferred. Write Varda, Greenlands, Greenlands Road, Staines.

TRADE IN BELGIUM.—Very important firm in Brussels, dealing in Drugs, Chemicals, etc., and having extensive warehouses, desires sole agencies for the sale of all Druggists', Drysalters', and Chemists' requirements. Write to Zanssens Frères, Rue de Flandre 181, Brussels.

TURNER'S TABLETS.—Agents wanted for the sale of our Tablets; applicants must have sound connection with good buying houses; every encouragement will be given to pushing, energetic men. State full particulars, references, ground covered and how often, and commission required, Turner Chemical Manufacturing Co., Broad Street House, E.C. 3.

SITUATIONS OPEN.

RETAIL.

BAKEWELL.—Wanted, reliable qualified Manager. Please send full particulars to E. G. Carrington, Chemist, Bakewell.

BATH.—Assistant; accustomed to Dispensing; about 24. Send full particulars in first letter, and say when disengaged (moderate hours). 216/24, Office of this Paper.

BIRMINGHAM.—Qualified Assistant required for quick cash and N.H.I. Dispensing business; permanency; would suit elderly Chemist if active. Apply 217/73, Office of this Paper.

BIRMINGHAM.—Assistant required for Light Retail and Dispensing; must be reliable and a good Dispenser; outdoors; excellent prospect and permanency for suitable man. State experience, references, and salary required to 216/5, Office of this Paper.

BRADFORD (NEAR).—Elderly qualified Assistant; easy hours; duties light; permanency. "L. M." (217/71), Office of this Paper.

BRIGHTON.—Assistant required for a good-class Retail and Dispensing business; good salary offered to a capable reliable man; no late duty, but a few hours alternate Sundays. Apply with full particulars, stating salary required, Parris & Greening, 16 Western Road, Hove.

BURNLEY.—Qualified Assistant wanted for quick cash business; comfortable outdoor berth; good prospects. State age and salary required, Hankeys, 10 Colne Road, Brierfield, near Burnley.

DERBYSHIRE.—A reliable qualified Assistant required for small middle-class Retail business with N.H.I.; hours moderate; no holiday or Sunday duty; a permanency for the right man. Salary and recent reference to 217/20, Office of this Paper.

EPSOM, SURREY.—Required, a qualified Chemist; slightly disabled would suit; salary must be reasonable. Apply H. J. Totte, Epsom.

FOLKESTONE.—Qualified Assistant wanted for high-class Dispensing and Retail; outdoors; others kept; permanency; applicants must have good appearance and address. State full particulars, age, height, salary required, when disengaged; could wait a week or two for suitable man; short hours and comfortable berth. Enclose photo (to be returned) to F. G. Curtis & Sons, 94 Sandgate Road, Folkestone.

GOLDFER'S GREEN.—Assistant Dispenser required; 5 to 8 p.m., daily except Sunday; salary 21s. weekly. Apply 216/32, Office of this Paper.

HULL.—Qualified Manager required for Light Retail and Dispensing business; permanent and progressive berth; interest in the profits offered. "M. C." (217/7), Office of this Paper.

LEEDS.—Assistant or Dispenser, lady or gentleman, required at once; outdoors. Apply, stating experience and salary required, to M. E. Murray, M.P.S., 221 Woodhouse Lane, Leeds.

LEICESTER.—Wanted, Junior or Improver. Send full particulars as to age, experience, salary, etc., to F. W. Goodess, Uppingham Road, Leicester.

LINCOLN.—Wanted, qualified Manager, capable of taking entire control of business, to live either on or off the premises. Send full particulars, references, etc., to E. R. Dixon, West Hill House, Lincoln.

LONDON.—Wanted, a qualified and capable man for quick cash Retail; good salary and exceptional prospects; permanency. Also smart Junior. Apply 217/11, Office of this Paper.

LONDON.—Lady Minor for Retail; non-resident. State salary required, 216/36, Office of this Paper.

LONDON, CITY.—Wanted, Junior Assistant; unqualified; outdoors; easy hours. Apply, with full particulars as to experience, when disengaged, salary expected, and references, to Pollock & Co., 133 Fenchurch Street, E.C. 3.

LONDON, E.—Elderly qualified Chemist required for Dispensing and Light Counter work; state age and salary required; permanency. "T. S." (217/74), Office of this Paper.

LONDON, N. 4.—Wanted, about February 3rd or 10th, a reliable and capable Assistant for quick cash business; hours 9 till 8, Saturdays 9, close at 1 on Wednesdays, duty every other Sunday evening only from 6 till 8. Full particulars of experience and age, or personal call, to Kirie, 4 Grand Parade, Harringay.

LONDON, N.E.—Wanted, lady Assistant for small Drug Store; no poisons; one with two or three years' experience; wages about 30s. to 35s. per week. Apply 217/16, Office of this Paper.

LONDON, S.E. 7.—In a good Retail and Dispensing and Prescribing branch, an in- or outdoor Assistant; a good Salesman and Prescriber. Apply, stating references, experience, and salary, to "Chemist," The Village, Old Charlton.

LONDON, S.W.—Wanted, a qualified Assistant; live in; must be a quick, accurate, and neat Dispenser; state age and salary required; a lady Assistant kept. Apply to John Selley, Chemist, 202 Earls Court Road.

LONDON, W.—Qualified Assistant (gentleman) required at once for Counter in West-End Pharmacy. Apply Manager, Allen & Hanburys, Ltd., 7 Vere Street, W. 1.

LONDON, W.—Wanted (immediately), a Junior Assistant to assist Dispensing Counter. State age and salary required to John Atkins, Chemist, Queen's Road, Bayswater, W. 2.

LONDON, W.—Wanted (immediately), Assistant for Counter and Dispensing. Apply the Manager, Heppell & Co., 26 Piccadilly.

LONDON, W.—Assistant required; must be thoroughly experienced in Dispensing; good salary for suitable man. Apply, with full particulars, to Whitmore Baker, M.P.S., 239 Elgin Avenue, Maida Vale, W.

MANCHESTER.—Wanted, a qualified Dispenser (Minor), male or female, for the Dispensary at Ancoats Hospital, Manchester; salary £175 per annum. Apply, stating age, qualifications, and past experience, to the Secretary.

MANCHESTER.—Wanted, qualified Assistant or Assistant Manager for good-class Dispensing business; good references. State age, salary, etc., 215/23, Office of this Paper.

MANCHESTER DISTRICT.—Qualified (outdoors) Assistant, aged about 30, required for good-class Retail and Dispensing business. Address, stating full particulars as to salary, references, etc., and enclosing photo (to be returned), to T. and W. Woodruff, Pharmacists, Cheadle, Cheshire.

MANCHESTER DISTRICT.—Qualified Manager required for February and March for good-class Pharmacy in Cheshire town; reasonable hours; no attendance Sunday or evening of weekly half-holiday. Apply, with references and salary required, to 214/22, Office of this Paper.

NEAR MANCHESTER (13 miles).—Unqualified Assistant wanted (outdoors) for mixed business and N.H.I. Dispensing. State salary required, age, etc., to S. Hall & Son, Chemists, Littleborough, near Manchester.

NEAR MANCHESTER.—Branch Manager wanted; qualified or unqualified; moderate hours; no Sunday duty. State experience and salary required, R. Needham, Chemist, Stalybridge.

NORWICH.—Wanted (immediately), qualified Assistant; outdoors; capable of taking sole charge of mixed business; comfortable post. Send full particulars, salary, and photo if possible to Robinson & Co., Chemists, Norwich.

NOTTS.—Qualified lady or gentleman to take charge of branch shop; comfortable shop; easy hours; managed by lady Pharmacist for last two years. Usual particulars to E. J. Latham, Sherwood Pharmacy, Warsop, Mansfield.

NORTHAMPTON.—Wanted, a capable unqualified Assistant, with good all-round experience; outdoors; no duty on Sunday or after closing; permanency. State age, experience, and salary required to L. North, Chemist, Bridge Street, Northampton.

OXFORD.—Messrs. Dolbear & Goodall require capable Assistant (lady or gentleman) for good-class Dispensing business; indoors or outdoors. Apply, with full particulars, 108 High Street, Oxford.

SHEFFIELD.—Smith & Hill, Nether Edge, require young qualified Assistant; accustomed to good-class trade; possibility of ultimate partnership if mutually agreeable. State salary required and experience.

SHEFFIELD.—Messrs. G. T. W. Newsholme, Ltd., 27 High Street, Sheffield, require qualified Assistant with good experience. Address applications, giving full particulars, salary required, and references, to Mr. Austen.

SHEFFIELD.—F. Medley, Pharmacist, Pitsmoor, has vacancy for qualified Managing Assistant (lady or gentleman) for branch; Light Retail and Dispensing. Full particulars, age, experience, salary, etc.

WEST RIDING.—Managing Assistant, qualified or unqualified, required for good-class business; must be a smart Salesman, used to modern methods of business; able to control staff; hours 8.30 to 7, 1. Thursday, 8 Friday and Saturday; to a reliable man with first-class testimonials good salary will be given. Apply 217/22, Office of this Paper.

SHEFFIELD.—Vacancies for qualified Manager and qualified Assistant will shortly be open in middle-class shops; hours easy; alternative Sunday duty; half-day on Thursdays. Applicants please give full particulars, salary, etc., to 65 Rustlings Road.

A QUICK and accurate Dispenser, with good general experience, wanted for good-class country Retail and Dispensing. Apply, stating age and salary required (outdoors), "Alpha" (213/39), Office of this Paper.

A SSISTANT required, preferably qualified, for Dispensing and Light Retail business. Apply to A. J. Hall, Pharmacist, 196 Belsize Road, Hampstead, N.W. 6.

A SSISTANT for mixed Agricultural business in West of England; short hours; no Sunday duty. Full particulars with photo, to be returned, 193/27, Office of this Paper.

A SSISTANT wanted, full or part time, for good-class Retail and Dispensing; N.W. district. Please state usual particulars to "Alpha" (215/34), Office of this Paper.

A SSISTANT wanted, lady or gentleman, permanency, for Dispensing and Light Retail near London; reasonable hours; indoors; comfortable. State salary and full particulars to 15/52, Office of this Paper.

CAPABLE and energetic Assistant, of refined address, required for good-class Pharmacy; outdoors; knowledge of Dentistry essential; satisfactory salary, Dental commission, and a permanency for the right man. Rayner & Son, Uxbridge.

COCKS & DUNSFORD, Torquay, require an Assistant for good-class Dispensing and Retail.

COMPETENT Junior Assistant required; good Dispenser; outdoors; unqualified. Apply, with usual particulars, Sloman, Chemist, Exeter.

COMPETENT Assistant wanted for good-class county Dispensing and Retail (outdoors); quick and accurate Dispenser; good references. Apply, stating salary required and age, to Henry Davis, Chemist, Northbrook Street, Newbury, Berks.

JUNIOR Assistant (outdoors) for good-class business; also young man to help in Warehouse. Please apply, with all usual particulars, to Charles Bing, Pharmaceutical Chemist, Canterbury.

JUNIOR Assistant for good Retail and Dispensing business; comfortable home; no Sunday duty; good references essential. Evans, Chemist, Brynmawr, Brecon.

JUNIOR Assistant or Improver required (at once). Apply, with full particulars and salary required (indoors), to P. Stacey, Pharmaceutical Chemist, 81 High Street, Teddington.

JUNIOR required (at once) in high-class Dispensing business near London; three kept. Apply 217/24, Office of this Paper.

LADY Assistant wanted, Hall qualification, for Dispensing and Counter; light work; short hours. Please apply, with full particulars, 214/23, Office of this Paper.

LADY Assistant wanted as Senior, chiefly for Dispensing; three employed; moderate hours; no Sunday duty; outdoors. Apply Shields & Warren, Chemists, St. Albans.

LEWIS & BURROWS have vacancies for one or two good Dispensers; ladies or gentlemen; excellent prospects for those with really first-class experience. Apply Lewis & Burrows, Ltd., 146 Holborn Bars, E.C.

LOCUM wanted at once. State full particulars in first letter, Noble, Chemist, South Croydon.

MANAGER (qualified) or locum for branch shop: East London; Light Retail, N.H.I. Dispensing; usual hours and half-day. State salary and particulars, Chemist, 289 Harrow Road, Leytonstone, E.

MANAGER wanted, to take charge for a few weeks only from next week. Replies, with full particulars in first instance, to Nunn, Chemist, Clock House, Beckenham.

MANAGER: qualified; good prospects; easy hours. 60 Watney Street, St. George's, E. 1.

PROGRESSIVE permanency for a qualified Managing Assistant in business of private limited company; must be thoroughly educated; every consideration shown to right man; working-class neighbourhood; N.H.I. Dispensing and Prescribing; hours 10.30 a.m. to 8.30 p.m., Thursday 1 o'clock, Sunday night 6.30 till 8. Please give full particulars to Ph.C., c/o A. J. Preston, Ltd., 16 Sumner Road, Peckham, S.E. 15.

QUALIFIED Manager required (immediately) for good-class Dispensing and Retail business in Highbury, Islington; first-class references essential and good wages offered to satisfactory applicant. Apply Atkins, East Hill, S.W. 18.

QUALIFIED Assistant wanted to take charge; outdoors. Apply, stating terms and full particulars, to J. W. Green, 60 Nunhead Lane, S.E. 15.

QUALIFIED young man (single) required immediately; excellent opportunity for one who is anxious to make progress; must be energetic and absolutely reliable. "H. L." (217/70), Office of this Paper.

QUALIFIED Manager of London; good profits. Apply, 217/

QUALIFIED Manager required, and Chemist, Ramsgate.

QUALIFIED Manager Dispensing, S. Quilliam & Co., Ltd.

QUALIFIED Manager at Stepney; good salary. Morgan

QUALIFIED Manager London; first-class. In reply, please state Office of this Paper.

REQUIRED, unqualified Dispensing. R.

SAVORY & MOOR services of qualified Dispensing; ou

THOROUGHLY experienced. Na

UNQUALIFIED Assistant good salary; ou

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WANTED, reliable district. State Office of this Paper

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YOUNG lady Dispenser, Cricklewood or personally, or by letter, Kentish Town

YOUNG man for gentlemanly, etc. man. Please state salary required, and turned), 217/34, C

LANCASHIRE Machinery, re manufacture of C. Toilet preparations State age, experience 3/2, Office of this

LONDON.—Whole charge of invoicing Medical and Sundries. Please state age, experience, and references of this Paper.

LONDON, W.—Society End Wholesale organiser; good p. Ltd., 7 Vere Street

A LARGE London man, with W. clerical staff. Writ

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Paper.

A THOROUGHLY experienced and reliable Sundries Manager is required by a provincial house; the position is one calling for an intimate knowledge of the trade, and offers good scope for an energetic man. Applicants should give fullest particulars in the first instance to 10/58, Office of this Paper.

A N old-established firm of Wholesale Druggists, dealing with Chemists and Medical men, are desirous of meeting with a qualified Manager. The position offered is a progressive one, as the principal is desirous of gradually withdrawing from active business participation. A gentleman with Retail experience preferred. Applications, giving full particulars of salary required, and, in confidence, previous experience and present position, to be addressed to "Wholesale" (15/11), Office of this Paper.

A SSISTANT Manager; firm of Manufacturing Perfumers; good opening for smart organiser, with competent knowledge of Soap and Toilet manufacture. State experience, salary required, 209/24, Office of this Paper.

COUNTERMEN for Wets and Drys required by London Wholesale house. State experience, age, and salary required to "Cascara" (8/480), Office of this Paper.

E XPERIENCED Export Packers required by London Export Druggists. Apply to "Packer" (8/481), Office of this Paper.

F OOD SPECIALIST WANTED.—The services of an Expert in the preparation of food required, to introduce new lines in food packer's business, and to superintend mixing department; articles already prepared include farinaceous foods, custard powder, etc.; must understand machinery; salary £300 per annum. State fullest particulars in first letter. Suitable recipes would be purchased. Apply Standard Health Food Co., Ltd., Joybells Works, Reading.

L ABORATORY Manager required by a provincial firm of Wholesale Druggists near Manchester, to take sole control of Laboratory; previous experience in the manufacture of B.P. preparations and Pharmaceutical specialities necessary; Major qualification preferred. Apply, stating age, salary required, and full particulars of previous experience, to 14/14, Office of this Paper.

L ABORATORY hand required; one used to manufacture Galenicals; good prospects. State full experience and wages required, 224/47, Office of this Paper.

M ALT EXTRACT MANUFACTURE.—Wanted, thoroughly competent Manager, with necessary Engineering knowledge, to take entire management of Malt Extract plant situate in centre of agricultural district in Yorkshire. Replies, in confidence, to E. Manning Kerr, 125 Norfolk Street, Sheffield.

M ANUFACTURING Pharmacist required in London, with all-round experience in the manufacture of Galenical preparations, to take sole control in the Laboratory of Wholesale and Export Manufacturing Chemists in London; must be fully conversant with all branches; substantial salary will be paid according to ability, experience, and qualification. Apply, stating full particulars as to experience, etc., to 4/68, Office of this Paper.

P ACKED GOODS DEPARTMENT.—Capable experienced and energetic Manager required; excellent opening of a progressive nature offered to the right man. Reply, giving fullest particulars of previous experience, capabilities, etc., to 10/56, Office of this Paper.

P HARMACIST, age about 24, wanted (at once) for export department of City firm. Apply, with usual particulars, to 14/64, Office of this Paper.

P ERFUMERY Buyer required; a man with original ideas, thoroughly conversant with the best-class trade; able to create new lines. Particulars in full, in writing, to P. M. O., Harrods, Ltd., Brompton Road, London, S.W.

Q UALIFIED Chemist, one desiring permanency preferred, to take part in the management of a small provincial Wholesale house; knowledge Compressed Tablets and Lozenges essential, as this department may be developed considerably. State previous experience, age and salary expected, 185/5, Office of this Paper.

T ABLET MAKING.—Wanted, smart man, having had good experience; excellent opportunity, which is permanent. Apply, full particulars in confidence, Philip Harris & Co., Pharmaceutical Specialist, Birmingham.

T RAVELLER wanted for East Coast, to call on Chemists with Sundries, etc.; commission only. "Listerism" (13/16), Office of this Paper.

T RAVELLER required, London and provinces, calling on Hair-dressers and Chemists; Toilet articles, Brilliantine, Perfumes, etc. Write 195/29, Office of this Paper.

T RAVELLERS wanted to push quick selling and profitable lines (a whole series of Toilet articles) amongst Chemists, Drapers, and Hairdressers; Scotland, West of England, Wales, South of England, Lancashire, Yorkshire. Apply 15/35, Office of this Paper.

WANTED (at once), smart reliable Manufacturing Chemist; experienced in the making of Food Products supplied to Grocery and Confectionery trade; liberal terms, with interest on results, to suitable applicant. Write, giving age, experience, and salary required, to 211/24, Office of this Paper.

WANTED, a Traveller to call on Wholesale Druggists, Soap Makers, Perfumers; must be young and energetic, and with full knowledge of the trade. Reply fully to 204/10, Office of this Paper.

WANTED, experienced Tablet Machinist. Apply W. B. Cartwright, Ltd., Tablet Makers, Rawdon, near Leeds.

W HOLESOME.—Dry Counter Assistant required; good wages and prospects. Apply Timothy White Co., Ltd., Portsmouth.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

I NDIA.—Two Assistants, qualified preferred, required for high-class British firm of Chemists in Calcutta; four years' agreement; passage paid out and home; monthly salary first year Rs. 300, second Rs. 325, third Rs. 350, and fourth Rs. 400. Apply, giving full particulars of experience, etc., to 215/12, Office of this Paper.

J APAN.—Wanted immediately, as Fourth Assistant (qualified preferred) in a first-class Chemist's business at Kobe; easy hours; four years' contract; passage paid out and home; no ladies or married men need apply. Send for full particulars, with photo, to J. W. Franklin, e/o Bailey's Hotel, Gloucester Road, S.W. 7.

J APAN.—Two qualified Assistants wanted for Yokohama. Salary £20 per month, increasing to £30; free furnished quarters, with lighting and heating; free passage out and home. For details, apply M. H., S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, London, E.C. 1.

SINGAPORE.—Wanted (immediately), Qualified Assistant; young, sound, and single; three years' engagement; monthly salary of \$250, \$275, and \$300 respectively (\$1 equivalent to two shillings and fourpence sterling); passage paid out and home. Full particulars from Downie, 187 Gairbraid Street, Glasgow.

S TRAITS SETTLEMENTS.—Qualified Assistant, young, and capable of managing Branch Dispensary; four years' agreement; passage paid out and home; salary first year, dollars 250 per month, second and third years dollars 275 per month, fourth year dollars 300 (Straits dollar 2s. 4d.); splendid opportunity for an energetic man; a knowledge of Optical and Photographic work desirable. Apply W. C. H. Burgoyne, Burbidges & Co., Ltd., East Ham, E. 6.

A SSISTANT for Calcutta required, preferably with Major qualification, for the manufacture of Pharmaceutical Chemicals; some knowledge of Chemical Engineering an advantage. Apply 13/660, Office of this Paper.

A SSISTANT for Calcutta required; used to manufacture of Galenicals, Tinctures, Liquid Extracts and Spirituous preparations, Ointments, Pill Mass, etc.; able to take complete charge of the department. Apply to 13/66, Office of this Paper.

F OREIGN TRAVELLING REPRESENTATIVE.—Old-established Toilet Soap and Perfumery house has a vacancy for an experienced Salesman with thorough knowledge of Toilet Soap, Perfumery, and all Toilet preparations; good prospects for a man with connections in oversea markets, who can work these methodically. Replies, giving full particulars, which will be treated confidentially, to 15/75, Office of this Paper.

L ABORATORY.—Wanted, for South Africa, a first-class man to take charge; climate healthy; conditions generally are good, and prospects excellent; passage paid out. Apply Lennon, 14 Lafone Street, Loudon, S.E.

YOUNG Pharmacist (unmarried), with a good knowledge of Chemistry, wanted for an important position in a Chemical works in Australia. Apply, stating full particulars of experience, etc., to 14/640, Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

[HOME.]

RETAIL.

A CCOUNTANCY.—Advertiser, many years' experience of Wholesale and Retail trade, seeks evening or part-time appointments, writing up and keeping books for Chemists, and preparing final accounts for income tax assessment. Reply to 209/22, Office of this Paper.

A DVERTISER, unregistered, middle-aged, capable business man, accustomed to management, thoroughly conversant with working and middle-class trade in London, and possessing undeniable credentials, is desirous of obtaining management of an up-to-date Chemist's business or good-class Drug Store, where ability would be recognised. Apply 214/1, Office of this Paper.

ADVERTISER, 3½ years in R.A.M.C., demobilising shortly, desires engagement; Minor qualification; age 47 years; tall; first-class Retail experience; present employment, Sergeant Examiner in Medical Stores; good clerical ability. Apply 209/2, Office of this Paper.

ADVERTISER desires post with plenty of scope and prospects, as Senior or Manager; 29; qualified; energetic; West-End experience; permanency. Apply 217/5, Office of this Paper.

AN Australian Chemist, age 21, now in British Camp, seeks a berth as Improver under the new Repatriation Scheme, with a view to getting acquainted with British Pharmacy. Apply Chemist, c/o Miss Trenerry, Metha Row, Newlyn East, Grampound Road, Cornwall.

ASSISTANT; smart; unqualified; just demobilised; good Dispenser and Salesman; London district or near; Pharmacy School preferred; state salary. Address J. L. S., c/o Carlin, 39 Alderney Road, Mile End, E. 1.

ASSISTANT, qualified, 37, Dispensing and Counter, West-End experience, seeks engagement about middle of February. Apply 214/11, Office of this Paper.

ASSISTANT; qualified; 29; good experience; highest references. Apply 214/2, Office of this Paper.

ASSISTANT; unqualified; 38; tall; good experience and references. 65 Maydwell Street, Camberwell.

ASSISTANCE for fortnight; light work only; unqualified; competent; 52; country or seaside. Apply 215/3, Office of this Paper.

ASSISTANT; unqualified (recently demobilised); height 5 ft. 10½ in.; capable Dispenser, Photography; Lancashire district preferred. Jackson, 91 Todmorden Road, Littleborough, Lancs.

ASSISTANT; unqualified (lady 25); eight years' good-class experience; Dispensing, Photography, Counter. State salary and hours, 211/23, Office of this Paper.

ASSISTANT (lady) desires post as locum or permanent; experienced. Apply Mrs. Ward, 11 Brackley Road, Beckenham.

ASSISTANT or Dispenser; 21; six years' good all-round experience; excellent references; abstainer; disengaged. Evans, 158 City Road, Cardiff.

ASSISTANT or Managing Assistant (32); unqualified; first-class Dispensing and Counter experience; thoroughly competent; country or seaside. "Phenalgin" (215/24), Office of this Paper.

AT liberty in 21 days, elderly Pharmacist (with wide experience) seeks post; active, methodical, and reliable, with good reference. State full details and terms offered in first letter. Apply "M.P.S." (214/18), Office of this Paper.

CHEMIST, 32, qualified, wide experience Retail, Wholesale, and Manufacturing, desires offers of situations; left hand injured, thumb and first finger missing through wound. "C." (209/23), Office of this Paper.

COMPETENT and trustworthy; married; unqualified, with best Dispensing and Counter experience; S.W. or W. district preferred. "Nux" (15/49), Office of this Paper.

DEMOBILISED (shortly).—Experienced all-round, unqualified (32), married, five years last situation, used to brisk trade, up-to-date methods, Photographic and large windows, seeks permanency where work and initiative would be appreciated; would undertake control of Drug Store (interest on results); held similar position; London or district. Apply 211/3, Office of this Paper.

DISENGAGED, qualified, 28, requires permanency with really good prospects; smart, neat; abstainer; excellent experience and references; North of England preferred. Apply 213/30, Office of this Paper.

DISENGAGED; Locum; permanency; reasonable hours and salary; excellent experience and references. Chemist, 122a Holland Road, W. 12.

DISPENSER (lady), three years' experience, desires post; evenings, or mornings and evenings; Doctor's or Chemist's. Reply, stating hours and terms, to Dispenser, 6 Charleville Mansions, W. 14.

EVENINGS; 37; unqualified; thoroughly competent. "C." 3 Evesham House, Stanlake Road, W. 12.

GENTLEMAN, tall, desires outdoor employment; 23 years' experience; excellent references; interview desired. "Cantos" (213/35), Office of this Paper.

HOSPITAL Locum; qualified. Irving, 66 Rowfant Road, Balham, S.W. 17.

INQUIRIES invited from employers in want of a competent unqualified Manager or Assistant; married; 35; good Salesman, Window-dresser, Prescriber, Dispenser; permanently required; highest references; could commence duties immediately; Midlands preferred, not essential. "Komo" (216/400), Office of this Paper.

LADY Dispenser-Bookkeeper requires post in good practice; competent and experienced; Hall qualification; London, S.W., preferred. Replies to 213/40, Office of this Paper.

LADY requires post in Retail Pharmacy business, to help in shop, with opportunity to gain experience in Dispensary; Riehnond or Kingston district preferred. Apply 215/8, Office of this Paper.

LADY Dispenser (Hall), lately qualified, desires post with Doctor or Institution; slight experience with Chemist. Miss C. Brown, Langley Lodge, King's Langley, Herts.

LADY Dispenser (Hall) desires post; Hospital or Doctor; some Hospital experience; Liverpool or Southport district preferred. Apply H. Baker, Hillside, Audlem, Cheshire.

LADY Dispenser requires post with Doctor; London or district. L. Webster, Wedon, Northants.

LADY Dispenser (Hall) desires post; Counter and Dispensing experience. Please state particulars, Götting, 33 Queen's Avenue, Finchley, N.

LADY (unqualified) seeks post; Assistant or Dispenser; seven years' experience; London preferred. Apply 217/1, Office of this Paper.

LADY Dispenser; Hall; two years' Hospital experience; some private Dispensing; testimonials, Hospital or Doctor. Apply 216/23, Office of this Paper.

LOCUM; unqualified; elderly; all-round experience; abstainer; references. "Energetic," 19 Chapel Street, Uxbridge.

LOCUM; qualified; disengaged. Cito, 4 Blenheim Road, St. John's Wood, N.W. 8.

LOCUM or Manager. Lynn, 2, Lodge, Sinclair Mansions, W. 12.

LOCUM; high-class experience; town or country; disengaged; abstainer; middle-aged; capable and energetic. W. B., 40 King Street, Maidstone.

LOCUM Tenens; disengaged January 15th; experienced. "L. T." 14 Oxford Street, Abergavenny, Mon.

LONDON OR SUBURBS.—Assistant (28) as Dispenser; 9 till 5; ten years' experience. Apply 215/300, Office of this Paper.

MANAGER; qualified; experienced; energetic, trustworthy. Best references, terms, and particulars, "J. F." (217/14), Office of this Paper.

MANAGER, 42, qualified, desires responsible berth in London; temporary or otherwise; succession entertained; experienced in Sight Testing and Dentistry. Elliott, 163 Camden Road, N.W. 1.

MANAGER; age 31; Staffordshire preferred, but not necessary. State terms to Howson, Everton House, 32 Bath Road, Cheltenham, Glos.

MANAGER (Senior); West-End experience; all-round hand; view to purchase, or partnership if necessary on terms, references. State salary, "L." 164 Clapham Road, S.W.

MANAGER; qualified; 48; married; good all-round experience; at liberty February. Aspinall, 29 Sandrock Road, New Brighton, Cheshire.

MANAGER; qualified; tall; 45; high-class and N.H.I. Dispensing, Photography; good Counterman; disengaged; duration engagement, London. Auderson, 9 Grantbridge Street, N. 1.

MANAGER; qualified; 31; Stores preferred, or work up neglected business; Midlands. State terms, etc., to "Pat" (208/40), Office of this Paper.

MANAGER, with view to partnership or succession; qualified; 37; at liberty; full business training; Continental, Colonial, and Loudon experience. Apply 216/17, Office of this Paper.

MANAGER or Senior; high-class Dispensing, Prescribing, and Dentistry; London and provincial experience; disengaged; age 31; unqualified; married; highest references. Apply 215/26, Office of this Paper.

MANAGER; temporary or permanent; widest experience and highest references; London preferred, but not essential; unqualified; good Prescriber. Apply 16/20, Office of this Paper.

MANAGER or Locum; qualified; excellent experience and references; abstainer; disengaged; 50. Apply 218/1, Office of this Paper.

MANAGERSHIP desired by M.P.S. (who is also a business man); 31; married; experienced and competent; well up in Prescribing, Dispensing, Buying, Stockkeeping, and Photography; knowledge of Optics; would prefer interest in business or with view to succession, but not essential; capital up to £1,000; excellent references; South Coast preferred. Particulars, including salary offered, to 213/29, Office of this Paper.

OFFICER on demobilising requires post, Assistant or Manager, Drug Stores, with Dental connection; experienced with local anaesthetics, fillings, crowns, artificial teeth; age 28; height 5 ft. 10 in.; good education; married; no children; furnished or unfurnished rooms accepted; part salary; London or country. Apply 205/20, Office of this Paper.

PART-TIME, evenings from 5.30, as Dispenser; many years' experience; London or suburbs. Apply 215/30, Office of this Paper.

PH.C., 37, married (wife qualified), invites correspondence with view to Managership; partnership or succession; conjoint job for both preferred; nine years' pre-war managership; good references. A. G. Cope, 22 Paget Road, Wolverhampton.

PHARMACEUTICAL Chemist (long West-End Managerial experience) desires locum management; disengaged. "Deva" (218/200), Office of this Paper.

PHARMACEUTICAL Chemist, just completed 17 years' continuous West-End managements, desires similarly responsible position; disengaged; London district preferred. "Bramfield" (218/2), Office of this Paper.

PHARMACIST, 30, married, desires a position where brains, tact, and ability will be recognised, appreciated, and adequately rewarded; can introduce Dentistry; highest references. State hours, salary, etc., 214/3, Office of this Paper.

PHARMACIST; part-time or on relief work; London experience; Counter, Prescribing, Dispensing; trustworthy. Apply 215/31, Office of this Paper.

QUALIFIED lady Dispenser requires afternoon post from 2 to 5.30 at Chemists or Dispensary, in West or North-West district; nearly three years' experience with West-End Chemist. Apply L. S., 156 Elgin Avenue, London, W.

QUALIFIED, 42, steady, reliable, desires change. Apply 213/22, Office of this Paper.

QUALIFIED Junior, high-class West-End experience, requires part-time situation. Apply 215/400, Office of this Paper.

QUALIFIED; waiting passage abroad; available for locum for two months; London only. Apply 205/20, Office of this Paper.

QUALIFIED Sergeant Dispenser, R.A.M.C., enlisted September 1914, desires situation on demobilisation; has been in charge of Dispensary of a General Hospital since April 1915; pre-war experience; quick cash and Dispensing; highest references; age 29; married. Please state usual particulars to "W. H. C." (206/27), Office of this Paper.

QUALIFIED; 19 years' good-class all-round experience; long engagements; excellent references. Salary and particulars to "Pharmacist," 336 Hungerford Road, Crewe.

QUALIFIED Assistant; tall, energetic; excellent references; just released from Army; age 25; South of England preferred. Apply 211/31, Office of this Paper.

QUALIFIED Manager, 30 years' experience in all branches, disengaged January 15th; locum, permanent, or executive position. Peacock, 54 Richmond Road, Abercavenny.

QUALIFIED Chemist desires situation as Dispenser, Assistant, or Manager; London or country near; permanency preferred; temporary entertained; at liberty 11th inst. A. C. T. Smith, 9 Bexhill Road, Crofton Park, London, S.E. 4.

QUALIFIED, 49, desires an engagement for a short time; South Loudon. S. S., 2 Gibon Road, Nunhead, S.E. 15.

QUALIFIED Manager, 39, with excellent experience, desires position in a good-class family business; disengaged end of February. Apply 215/37, Office of this Paper.

QUALIFIED, 26, married, 10 years' good-class experience, as Manager or Assistant. Please state hours and salary, "Vita" (217/12), Office of this Paper.

UNQUALIFIED; 42; married; management or senior; Dentistry, Prescribing, and Dispensing; London only; good references. "S. W." (8/30), Office of this Paper.

UNQUALIFIED Hall student desires part-time post in London. Miss Harris, 126 Thurlow Park Road, West Dulwich, S.E. 21.

YOUNG lady, 18, holding senior school certificate of London University, desires apprenticeship to Pharmaceutical Chemist. Please send terms, 188 Philip Lane, Tottenham, N. 15.

YOUNG lady (Hall), desiring to study for Minor, seeks post with Chemist; one year's experience as Doctor's Dispenser. Buttrick, 7 The Ridgeway, Enfield, Middlesex.

WHOLESALE.

ACCOUNTANCY.—Advertiser, 20 years' experience, seeks appointment as Head of Accountancy department of a progressive Wholesale house; well versed in self-balancing ledgers, statistics, secretarial duties, and the preparation of trading, profit, and loss accounts and balance sheets for income tax assessments. Apply 209/220, Office of this Paper.

ACTIVE Chemical Warehouse Foreman desires permanency; unique experience home and export; compounding, blending, breaking down; excellent references. "Pepsin," 37 Ranelagh Road, Pimlico.

ADVERTISER, with 20 years' experience and thorough knowledge of Retail Chemist's requirements, seeks position as Representative; town or country. March, 10 Millward Crescent, Hastings.

ADVERTISER, 31, desires post with good house as Representative, or good progressive position inside; sixteen years in Retail; excellent Salesman; first-class experience in all branches; highest references; conscientious and enthusiastic worker; good remuneration essential (with commission preferred). Pearce, Oldfield, Rosehill, Sutton, Surrey.

ADVERTISER, with 8½ years' Manufacturing and eight years' Retail experience, is seeking a permanent post as Laboratory Manager or Assistant; Midlands; married; 33; highest references; disengaged. "Kay" (216/40), Office of this Paper.

ANALYTICAL Chemist, University graduate, seeks position on the representative staff of a substantial Chemical firm; age 29; unmarried; fluent French. Apply 215/21, Office of this Paper.

CHIMIST (Minor), 15 years' pre-war experience Retail, Hospital, and a little Wholesale, seeks position with Wholesale house; excellent references. Apply 214/12, Office of this Paper.

DUBLIN.—Traveller, experienced, covering Ireland generally, open to carry packed goods, Proprietaries, Toilet, etc., on commission basis; interview 13th to 20th inst. P. L. Lawrence, Gower Hotel, Euston Road.

ENGINEER now open to take charge of Manufacturing Chemist; used to all latest Laboratory appliances, Colton and Stokes' machines, etc., tablet-punching making, and general maintenance of plant, steam and electric. W. J. N., 77 St. John's Road, Wembley.

FIRST-CLASS position required by Manager with nearly ten years' experience as Manager of factory producing medicinal articles and food products; expert in buying, selling, and advertising; advertiser is first-class man, full of energy and ideas; position worth less than £500 per annum not entertained. Write "Manager" (216/10), Office of this Paper.

GENTLEMAN, 25 years' first-class experience Retail, Wholesale, and Manufacturing, requires responsible position with London house; excellent references. Address 209/21, Office of this Paper.

GENTLEMAN (disengaged) seeks position as Representative; experienced traveller, London and provinces, for best houses; highest credentials. Apply 188/35, Office of this Paper.

GENTLEMAN (44) desires suitable position with good house; town or provinces; many years' experienced Clerk, Traveller, Manager, Sundries, and Proprietaries; Representative's position preferred, but willing do anything. Apply 199/25, Office of this Paper.

PH.C. desires post shortly; London; Works Chemist or Manager; 20 years' Manufacturing experience Galenicals, Synthetic Chemicals, Analysis Research, and Bacteriology. H. Johnson, 42 Rutland Road, Hove.

PHARMACEUTICAL Chemist, with 15 years' experience in the manufacture of Galenicals for leading London Wholesale houses, requires post as Head Chemist. Apply, with particulars, 203/6, Office of this Paper.

QUALIFIED, 23, requires situation in Laboratory or Wholesale Manufacturers. Apply "F.C.S." (215/4), Office of this Paper.

QUALIFIED Chemist, 20 years' experience in Retail, desires position with Wholesale house, preferably as Traveller; disengaged end of February. Apply 215/370, Office of this Paper.

QUALIFIED Chemist, with many years' West-End and provincial experience, desires post as Representative for a good house; provinces preferred; intelligent, tactful, and an excellent Salesman; references. "Peroside" (217/2), Office of this Paper.

REPRESENTATIVE, carrying one side line, London districts, would represent firm in Drugs, Sundries; any allied part; moderate terms; long experience; well known. "W. Y. W." (214/6), Office of this Paper.

RESPONSIBLE position required by qualified man; 40; good organiser and controller of staff; special knowledge of Perfumery and Toilet preparations for home and export trades; able to initiate new lines; prepare price-lists, etc.; expert at estimating and working out costs. Apply 213/38, Office of this Paper.

TRAVELLER, qualified man, wishes to represent good house; whole or part time. Apply 213/36, Office of this Paper.

WAREHOUSE Manager or position of trust in London; many years' experience similar position. Full particulars, "A. F. B." (217/3), Office of this Paper.

YOUNG Analytical Student (shortly), after demobilisation, seeks post with F.I.C. Please state salary and opportunities, "Burette" (216/33), Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

EGYPT.—English lady, of good address, desires post in Egypt; age 26; Apothecaries' Hall qualification; six years' experience; excellent references. Apply 217/15, Office of this Paper.

MISCELLANEOUS.

M CADAM & TUCKNICK, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. 3. Established 1898. Telephone: 81 Lee Green.

Shares for Sale (free of commission, subject)—100 Alliance Vegetable, 10s. 9d.; 50 Idris "A" Ordinary, 3s. 7½d.; £200 Aerators Debentures, bid wanted; 100 W. B. Fordham, 14s. 9d.; 20 Harrison & Barber, 57s. 6d.; 20 Ilford 6% Prefs., 18s. 6d.; 100 Mellins Food Refs., 15s. 7½d.; 30 Plasmon, 8s. 6d.; 150 Yeatman Ordinary, 11s. 3d.; 500 Commercial Salt, 2s. 9d.

Wanted (subject)—500 Siegels, 5s. 6d.; 100 Parke's Drug Prefs., 13s.; 200 Wright, Layman Prefs., 19s.

Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

A BOUT 5 cwt. first quality Paraffin, Moll. Flav.; original cask. What offers? Dyson, Chemist, Ilkeston.

FOR Sale, 600 gross small plain Ointment Tins, new, 3s. 9d. per gross. Apply 213/31, Office of this Paper.

M ALT EXTRACT; 5 1-cwt. Drums; finest quality for disposal. What offers? Apply 217/32, Office of this Paper.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C. 1.

SHOWCASES AND SHOP FITTINGS.—Several fine Silent Salesman Showcases and Counters; quantity of useful Shop Fittings; low prices. Write inquiries, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

50 CWT. Chlor. Lime (17%), 28 lb. Mountain Flax, 14 lb. Red Sage, 1 cwt. Wood Betony, 14 lb. Burdock Root, 3 cwt. Powdered Caraway Seeds, 5 cwt. Powdered Alum, 9½ lb. Rad. Sarsæ. Jam. Incis. Taylor, 22 Dalton Road, Wallasey.

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For a short time we are willing to buy Kodaks of all descriptions, until fresh supplies reach this country. If you have any you want to dispose of, send them along to us without waiting to get into communication, and we will make you an offer by return.

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DENTAL.

9 PAIRS Dental Forceps, 3 Hypodermic Syringes, 1 Serum Syringe, 1 Mouth Mirror. Apply 213/24, Office of this Paper.

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OFFERS. 36 Allen's Foot Ease, 12 Cockburn's Pills, 6 Burkhardt's Comp, 12 Pylinta, 5s. Savage, Manchester Road, Bradford.

SURPLUS STOCK.—2 oz. Sulphonal, 5s.; 1 oz. Argyrol, 6s. 6d.; 7 oz. Ext. Filicis Liq., 15s.; 2 lb. Sal Alembroth Lint, 10s.; 12 yards Sal. Alembroth Gauze, 2s.; ditto White Sublimate, 2s.; 6 lb. Tr. Chlorof. & Morph. Co. at 9s. 6d. lb.; Wineh., 1s.; No. 2 Folding Brownie Camera, 17s. 6d.; 3 dozen Grey O.W. Bandages, 3s., 4 yards, 7s. 6d. Stout, Chemist, Lerwick.

OPTICAL AND PHOTOGRAPHIC.

TRIAL Case, new, full-size lenses, mounted in leather case, with glass lid; perfect; cost £17, first cheque £11; or nearest. Jones, Chemist, Llanidloes.

MISCELLANEOUS.

SET of four 10-pint stout Copper Percolators, cylindrical, with brass taps, lids, and strainers, in wood stand, perfect condition, £4 4s. Rose Chemists, Dewsbury.

WANTED.

C. & D. Diary, 1918. Adam, 72 George Street, Aberdeen.

SKELETON of the Human Foot. Apply 215/28, Office of this Paper.

HEDONAL.—Wanted 2 oz. of Hedonal. State lowest price, Hepburn, Chemist, Enfield, N.

6 DOZ. each 4, 6, 10 oz. stop narrow mouth round Bottles. Gilbert Jackson, Ltd., Chemists, Sheffield.

WATER Bed in good condition. State size and price, Galloway, Blackpool.

TUBE Filling Machine, also Emulsifier; hand or power. Send particulars to Carmol Manufacturing Co., 28 Bath Row, Birmingham.

STEAM-JACKETED Copper Still, Tincture Press, Portable Steam Boiler wanted. Full particulars and price to Steventon, 25 Regent Street, Smethwick, Staffs.

GARDNER'S Patent Rapid Powder Sifters and Mixers for dry powders; also Gardner's Drying Machines; any size. Lowest prices and particulars to 15/14, Office of this Paper.

GARDNER'S Mixer wanted (about ½ cwt.), tube filling, and carbon filling machine. The above must be in good condition. State full particulars, F.O.R., to 209/10, Office of this Paper.

WANTED, Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

A SECOND-HAND plant for the manufacture of Household Soap; would consider buying factory outright. Apply 217/4, Office of this Paper.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W. 4.

FLY GUM Manufacturer wishes to get in touch with Fly Catcher Maker's Gum, suitable for home and all foreign climates. Apply 15/16, Office of this Paper.

WANTED direct from factories, home or abroad, regular supplies of Rubber Goods; also large quantities Compressed Pine, Brompton, Mint, Fruit, Lemonade Lozenge Tablets, Gums, Pastilles. Quote price, "Importer" (217/9), Office of this Paper.

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Revised Prices for P.A.T.A. Lines

OWING to continued advances in the cost of production the selling prices of the following articles have been increased, as from Nov. 1st:

	Retail Price (P.A.T.A.)	Wholesale Price Per Dozen, NET
CARBONIC ACID BATHS	2/3	18/-
CARLSBAD SALT	2/3	17/6
(SQUIRREL BRAND)		
FROZEN FOAM, small	10 $\frac{1}{2}$ d.	7/3
large	1/3	10/6

THE BRITISH DRUG HOUSES, Ltd.

22-30, Graham Street, City Road, LONDON, N.I.